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July 30, 2013

Mr. Len Zintak
On-Scene Coordinator
US Environmental Protection Agency Region 5
77 West Jackson Boulevard (SE-5J)
Chicago, IL 60604-3507

Subject: **Residential Well Sampling at 746 South Blackjack Road**
Bautsch-Gray Mine Site
Jo Daviess County, Illinois
Technical Direction Document No. S05-0001-0911-035
Document Control No. 874-2A-BHZM
Work Order No. 20405.012.001.0874.00

Dear Mr. Zintak:

Under Technical Direction Document (TDD) No. S05-0001-0911-035, the U.S. Environmental Protection Agency tasked the Weston Solutions, Inc. (WESTON®), Superfund Technical Assessment and Response Team (START) to conduct residential well sampling at 746 South Blackjack Road, which is adjacent to the Bautsch-Gray Mine Site in Jo Daviess County, Illinois (the Site).

This letter report provides a Site description and discusses residential well sampling and analytical results.

SITE DESCRIPTION

The Site is located at approximately 800 South Blackjack Road in Jo Daviess County, Illinois, approximately 4 miles south of downtown Galena, Illinois, and includes the following (**Figure 1** in **Attachment A**):

- A former Bautsch-Gray lead and zinc mine property that occupies approximately 55 acres
- A horseshoe-shaped retention area containing mine tailings located at 798 South Blackjack Road that occupies approximately 4.8 acres

The Site is located in a rural, agricultural, and residential area. The Mississippi River is located approximately 2 miles west of the Site. The meridian coordinates of the approximate center of the mine tailings pile at the Site are 42° 21’ 26.72” North latitude and 90° 23’ 54.85” West longitude. The residential property at 746 South Blackjack Road is located across South Blackjack Road east of the mine property and north of the horseshoe-shaped retention area (**Figure 1** in **Attachment A)**.

From 2010 through 2012, a removal action was conducted at the Site that included (1)

excavation of lead-contaminated soil from the residential property located at 746 South Blackjack Road, (2) stabilization of mine tailings, (3) management of surface water at the mine property, and (4) covering of the horseshoe-shaped area with vegetative growth to prevent surface migration of lead- and arsenic-contaminated mine tailings.

In July 2010, under an Administrative Order by Consent, the potentially responsible parties (PRP) for the Site contracted the installation of a reverse osmosis (RO) drinking water filtration system for the private well at the residence located at 746 South Blackjack Road.

RESIDENTIAL WELL SAMPLING AND ANALYTICAL RESULTS

This section provides an overview and chronological narrative of residential well sampling activities conducted at 746 South Blackjack Road. The residential well was sampled by first purging the well water for approximately 15 minutes or until water quality parameters had stabilized (at least two consecutive readings within ± 0.1 standard unit [SU] for pH, ± 3 percent for conductivity, and ± 0.1 degree Celsius for temperature). Unused sampling gloves were worn for sample collection. After purging, water sample bottles were filled directly from the tap.

The water well at 746 South Blackjack Road was sampled on ten different dates from 2009 through 2013. Below is a summary of the samples collected by date and the analytical results. **Table 1** in **Attachment B** summarizes the analytical results. **Attachment C** contains copies of the analytical results reports from the laboratory and their respective data validation reports.

- **October 6, 2009:** One sample of untreated well water was collected during the initial site assessment and analyzed for volatile organic compounds (VOC), semivolatile organic compounds (SVOC), metals, and pH. VOCs and SVOCs were not detected in the sample. The sample contained cadmium, copper, and lead at 0.0011, 0.021, and 0.027 milligrams per liter (mg/L), respectively. The lead result exceeded the EPA Maximum Contaminant Level (MCL) of 0.015 mg/L.
- **August 3, 2010:** One sample of treated water and a field duplicate sample were collected and analyzed for arsenic, cadmium, and lead. This sampling event occurred after the RO filtration system was installed in July 2010. The samples contained lead at 0.0024 and 0.0025 mg/L. These results are below the EPA MCL and are more than 10 times lower than the lead concentration in the sample collected in October 2009.
- **October 28, 2010:** One sample of treated water was collected and analyzed for arsenic and lead, which were not detected above the reporting limits.
- **July 11, 2011:** One sample of treated water was collected and analyzed for arsenic and lead, which were not detected above the reporting limits.
- **July 16, 2011:** One sample of treated water was collected and analyzed for pH and copper. The sample pH was 5.2 SUs. Water with a pH of less than 6.5 SUs can corrode

pipes and result in a bitter taste to water. The sample contained copper at 0.065 mg/L, which is below the EPA MCL.

- **August 11, 2011:** Four samples were collected, with the treatment system both on and off, and analyzed for pH. One sample and a field duplicate were collected from the kitchen sink faucet with the treatment system on. These samples had pH values of 6.2 and 5.6 SUs, respectively. Two samples were collected with the treatment system off, one from the kitchen sink faucet and one from the outside spigot on the north wall of the residence. These two samples had pH values of 6.8 and 6.7 SUs, respectively. Based on the sample results, the RO system apparently was causing the pH of the water to be lowered.

- **July 11 and 12, 2012:** One sample of treated water and one sample of untreated water were collected and analyzed for pH, arsenic, copper, and lead. The treated and untreated water samples had pH values of 5.4 and 6.9 SUs, respectively. Arsenic was not detected in either sample. The treated water sample contained copper at 0.2 mg/L, and lead was not detected above 0.0029 mg/L. The untreated water sample contained copper at 0.011 mg/L and lead at 0.03 mg/L. The lead result for the untreated water sample exceeds the EPA MCL.

- **February 12, 2013:** Two samples of treated water were collected and analyzed for pH, arsenic, and lead. The treated water samples had pH values of 5.5 and 5.4 SUs, respectively. Arsenic and lead were not detected in either sample. In addition, the treated water was filtered through a 5-micron filter and a 0.45-micron filter and analyzed for arsenic and lead. Arsenic and lead were not detected in either filtered sample.

- **July 25, 2013:** Three samples were collected, with the treatment system both on and off, and analyzed for pH, arsenic, copper, and lead. One sample and a field duplicate were collected from the kitchen sink faucet with the treatment system on. These samples had pH values of 5.1 and 5.2 SUs, respectively. Copper was detected in both samples at 0.028 mg/L. Lead and arsenic were not detected in these two samples. One sample was collected with the treatment system off, from the outside spigot. This sample had pH value of 6.9 SUs. Lead was detected in the untreated water at 0.028 mg/L which exceeds the EPA MCL. Copper was detected at 0.014 mg/L in the untreated sample.

In summary, the well water at 746 South Blackjack Road was sampled on ten different dates over approximately 4 years. The initial sample collected before installation of the RO filtration system contained lead at a concentration exceeding the EPA MCL. After installation of the RO filtration system, lead concentrations decreased greatly to below the EPA MCL. However, the RO filtration system sometimes apparently lowers the pH of the water.

If you have any questions or comments regarding this report or need additional copies, please contact me at (312) 424-3300.

Very truly yours,

WESTON SOLUTIONS, INC.

Lisa Graczyk
WESTON START Project Manager

Attachments:
A – Figure
B – Table
C – Analytical Results with Data Validation Reports

cc: WESTON START DCN File

ATTACHMENT A
FIGURE

FILE: D:\Bautsch_Grey\mxd\LR_F1_Site_Features.mxd 7/19/2013 11:21:11 AM wojdakon

Legend

0 500 Feet

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Prepared for:
U.S. EPA REGION V

Contract No.: EP-S5-06-04
TDD: S05-0001-0911-035
DCN: 874-2A-BHZM

Prepared By:
WESTON SOLUTIONS, INC
20 N. Wacker Drive
Suite 1210
Chicago, Illinois 60606

Figure 1
Site Features Map
Bautsch-Gray Mine Site
Jo Daviess County, Illinois

ATTACHMENT B
TABLE

Table 1
Analytical Results Summary - Residential Well Water at 746 South Blackjack Road
Bautsch Gray Mine Site
Jo Daviess County, Illinois

		Sample ID	BG-RW01-100609	BG-RW01-080310	BG-RW01-080310D	BG-746-102810
		Sampling Date	October 6, 2009	August 3, 2010	August 3, 2010	October 28, 2010
		Sampling Location	746 S. Blackjack Rd.*	746 S. Blackjack Rd.	Field Duplicate	746 S. Blackjack Rd.
		Comments	Outside Faucet North Wall; Untreated Water	Kitchen Sink Faucet; Treated Water	Kitchen Sink Faucet; Treated Water	Kitchen Sink Faucet; Treated Water
Parameter	**Unit**	**MCL**	**Result**			
pH	SU	---	6.95	NA	NA	NA
Metals						
Arsenic, Total	mg/L	0.01	<0.0010	<0.004	<0.004	<0.010
Cadmium, Total	mg/L	0.005	**0.0011 J+**	<0.002	<0.002	NA
Copper, Total	mg/L	1.3	**0.021**	NA	NA	NA
Lead, Total	mg/L	0.015	**0.027**	**0.0024**	**0.0025**	<0.0075

		Sample ID	BG-746-071111	BG-746-071611	BG-746-TAP01-081111	BG-746-TAP01-081111D	BG-746-TAP02-081111	BG-746-TAP03-081111
		Sampling Date	July 11, 2011	July 16, 2011	August 11, 2011	August 11, 2011	August 11, 2011	August 11, 2011
		Sampling Location	746 S. Blackjack Rd.	746 S. Blackjack Rd.	746 S. Blackjack Rd.	Field Duplicate of TAP-01	746 S. Blackjack Rd.	746 S. Blackjack Rd.
		Comments	Kitchen Sink Faucet; Treated Water	Kitchen Sink Faucet; Treated Water	Kitchen Sink Faucet, Treated Water	Kitchen Sink Faucet, Treated Water	Kitchen Sink Faucet, Untreated Water	North Wall Outside Spigot, Untreated Water
Parameter	**Unit**	**MCL**	**Result**					
pH	SU	---	NA	5.2	6.2	5.6	6.8	6.7
Metals								
Arsenic, Total	mg/L	0.01	<0.004	NA	NA	NA	NA	NA
Cadmium, Total	mg/L	0.005	NA	NA	NA	NA	NA	NA
Copper, Total	mg/L	1.3	NA	**0.065**	NA	NA	NA	NA
Lead, Total	mg/L	0.015	<0.0052	NA	NA	NA	NA	NA

		Sample ID	BG-RW01-071112	BG-RW03-071212	BG-HP-TW-021213	BG-HP-RW-021213	BG-HP-RW-021213-05	BG-HP-RW-021213-045
		Sampling Date	July 11, 2012	July 12, 2012	February 12, 2013	February 12, 2013	February 12, 2013	February 12, 2013
		Sampling Location	746 S. Blackjack Rd.	746 S. Blackjack Rd.	746 S. Blackjack Rd.	746 S. Blackjack Rd.	746 S. Blackjack Rd.	746 S. Blackjack Rd.
		Comments	Treated Water	Outside Spigot, Untreated Water	Kitchen Sink Faucet; Treated Water	North Wall Outside Spigot; Treated Water	Treated Water Filtered through 5-micron Filter	Treated Water Filtered through 0.45-micron Filter
Parameter	**Unit**	**MCL**	**Result**					
pH	SU	---	5.4	6.9	5.5	5.4	NA	NA
Metals								
Arsenic, Total	mg/L	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium, Total	mg/L	0.005	NA	NA	NA	NA	NA	NA
Copper, Total	mg/L	1.3	**0.2**	**0.011**	NA	NA	NA	NA
Lead, Total	mg/L	0.015	<0.0029	**0.03**	<0.004	<0.004	<0.004	<0.004

Table 1
Analytical Results Summary - Residential Well Water at 746 South Blackjack Road
Bautsch Gray Mine Site
Jo Daviess County, Illinois

Parameter	Unit	MCL	Sample ID	BG-RW01-072513	BG-RW01-072513D	BG-RW02-072513
			Sampling Date	July 25, 2013	July 25, 2013	July 25, 2013
			Sampling Location	746 S. Blackjack Rd.	Field Duplicate	746 S. Blackjack Rd.
			Comments	Kitchen Sink Faucet; Treated Water	Kitchen Sink Faucet; Treated Water	Outside Spigot, Untreated Water
				Result		
pH	SU	---		5.1	5.2	6.9
Metals						
Arsenic, Total	mg/L	0.01		<0.004	<0.004	<0.004
Cadmium, Total	mg/L	0.005		NA	NA	NA
Copper, Total	mg/L	1.3		**0.028**	**0.028**	**0.014**
Lead, Total	mg/L	0.015		<0.005	<0.0045	**0.028**

Notes:
Bolded results exceed reporting limits.
Yellow highlighted results exceed MCLs.
*The reverse osmosis drinking water filtration system was installed in July 2010.
< = Less than
ID = Identification
J+ = Result should be considered estimated biased high
MCL = Maximum contaminant level
mg/L = Milligram per liter
NA = Not analyzed
SU = Standard unit

ATTACHMENT C
ANALYTICAL RESULTS WITH DATA VALIDATION REPORTS

BAUTSCH GREY MINE SITE
GALENA, ILLINOIS
DATA VALIDATION REPORT

Date: November 10, 2009
Laboratory: TestAmerica Laboratories, Inc. (TestAmerica), University Park, Illinois
Laboratory Project #: 500-21700-1
Data Validation Performed By: Lisa Graczyk, Weston Solutions, Inc. (Weston) Superfund Technical Assessment and Response Team (START)
Weston Analytical TDD/Work Order #: S05-0001-0909-012/20405.016.001.0768.00

This data validation report has been prepared by Weston START under the START III Region V contract. This report documents the data validation for five water samples (plus one trip blank) collected for the Bautsch Grey Mind Site that were analyzed for the following parameters and methods:

- Volatile Organic Compounds (VOC) by U.S. Environmental Protection Agency (U.S. EPA) SW-846 Method 8260B
- Semivolatile Organic Compounds (SVOC) by U.S. EPA SW-846 Method 8270C
- Total Metals by U.S. EPA SW-846 Methods 6020 and 7470A
- pH by U.S. EPA SW-846 Method 9040B

A level IV data package was requested from TestAmerica. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008 and "Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" dated October 2004. The Attachment contains the results summary sheets with hand-written data qualifiers.

Data Validation Report
Bautsch Grey Mine Site
TestAmerica Laboratories, Inc.
Laboratory Project #: 500-21700-1

VOCs BY METHOD 8260B

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
BG-RW01-100609	500-21700-1	Water	10/6/2009	10/14/2009
BG-RW02-100609	500-21700-2	Water	10/6/2009	10/14/2009
BG-RW02-100609	500-21700-3	Water	10/6/2009	10/14/2009
BG-SW01-100709	500-21700-4	Water	10/7/2009	10/14/2009
BG-SW02-100709	500-21700-5	Water	10/7/2009	10/14/2009
TRIP BLANK	500-21700-6	Water	10/6/2009	10/14/2009

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection.

3. Gas Chromatograph/Mass Spectrometer (GC/MS) Instrument Performance Check

The instrument performance check using bromofluorobenzene (BFB) was performed and met the ion abundance criteria specified in method 8260B.

4. Calibration Results

For the initial calibration, the percent relative standard deviations (%RSD) for target compounds were less than 30.

The percent differences in the continuing calibration standard for target compounds were within the control limit of less than or equal to 25 percent except for as follows.

In the continuing calibration, bromomethane was outside the QC limit. The quantitation limits for the non-detected bromomethane results were flagged “UJ” as estimated.

5. Blanks

A method blank was analyzed with the samples and was free of target compound contamination above the reporting limit. The trip blank was also free of target compound contamination above the reporting limit.

6. Surrogate Recoveries

The surrogate recoveries were within the laboratory-established QC limits.

7. LCS Results

The LCS recoveries were within the laboratory-established QC limits.

8. Field Duplicate Results

Both the field duplicate and parent investigative sample contained no detections of target VOC analytes indicating good correlation.

9. Internal Standard Results

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than ±30 seconds from the retention time of the associated continuing calibration standard.

10. Overall Assessment

The VOC data are acceptable for use based on the information received.

Note that extra volumes for matrix spike (MS) and matrix spikes duplicate (MSD) were not provided to the laboratory and therefore, the laboratory did not analyze a site-specific MS/MSD with the analysis. In addition, it was confirmed that target analytes were not detected in the samples (except for acetone in sample BG-SW01-100709).

Data Validation Report
Bautsch Grey Mine Site
TestAmerica Laboratories, Inc.
Laboratory Project #: 500-21700-1

SVOCs BY METHOD 8270C

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
BG-RW01-100609	500-21700-1	Water	10/6/2009	10/12/2009	10/13/2009
BG-RW02-100609	500-21700-2	Water	10/6/2009	10/12/2009	10/13/2009
BG-RW02-100609	500-21700-3	Water	10/6/2009	10/12/2009	10/13/2009
BG-SW01-100709	500-21700-4	Water	10/7/2009	10/12/2009	10/13/2009
BG-SW02-100709	500-21700-5	Water	10/7/2009	10/12/2009	10/13/2009

2. Holding Times

The samples were analyzed within the required holding time limit of 7 days from sample collection to extraction and 40 days from extraction to analysis for water samples.

3. Instrument Performance Check

The instrument performance check using decafluorotriphenylphosphine (DFTPP) met the ion abundance criteria specified in method 8270C.

4. Calibration Results

The initial calibration had acceptable results. The %RSD for all detected compounds were less than 30 and the average relative response factors were all greater than 0.05.

The %Ds in the CCV were within the QC limit of less than or equal to 20 percent for target compounds.

5. Blanks

Method blanks were analyzed with the samples and were free of target compound contamination above the reporting limit.

6. Surrogates Results

The surrogate spike recoveries were within the laboratory-established QC limits.

7. LCS Results

The LCS recoveries were within the laboratory-established QC limits.

8. Field Duplicate Results

Both the field duplicate and parent investigative sample contained no detections of target SVOC analytes indicating good correlation.

9. Internal Standard Results

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than ±30 seconds from the retention time of the associated continuing calibration standard.

10. Overall Assessment

The SVOC data are acceptable for use as qualified based on the information received. Note that extra volumes for MS and MSD were not provided to the laboratory and therefore, the laboratory did not analyze a site-specific MS/MSD with the analysis. In addition, it was confirmed that target analytes were not detected in the samples.

TOTAL METALS BY METHODS 6020 AND 7470A

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
BG-RW01-100609	500-21700-1	Water	10/6/2009	10/12/2009 – 10/20/2009
BG-RW02-100609	500-21700-2	Water	10/6/2009	10/12/2009 – 10/14/2009
BG-RW02-100609	500-21700-3	Water	10/6/2009	10/12/2009 – 10/14/2009
BG-SW01-100709	500-21700-4	Water	10/7/2009	10/12/2009 – 10/20/2009
BG-SW02-100709	500-21700-5	Water	10/7/2009	10/12/2009 – 10/20/2009

2. Holding Times

The samples were analyzed within the required holding time limit of 28 days from sample collection for mercury and 180 days from sample collection for all other metals.

3. Calibrations

The initial calibration verification and continuing calibration verification standards were within the QC limits of 90 to 110 percent recovery (%R).

4. Blank Results

Method blanks and calibration blanks were analyzed with the samples and were free of target analytes above the reporting limit except for as follows.

Cadmium was detected slightly above the reporting limit at 0.000675 milligram per liter (mg/L). Cadmium results at less than 10 times this concentration were flagged "J+" as estimated with a high bias.

Some target metals were detected below the reporting limit; however, in most instances there were either no detections in the samples or the sample result was much greater than the blank result. The exception was copper in sample BG-RW02-100609. This copper result was flagged "U" as not detect.

5. Interference Check Sample (ICS) Results

The ICS solutions A and AB were analyzed. The recoveries in the ICS solution AB were within the QC limits of 80 to 120 %R.

6. LCS Results

The LCS recoveries were within the laboratory-established QC limits for target analytes.

7. Field Duplicate Results

The relative percent difference (RPD) between the field duplicate and investigative sample was calculated for each detected metal. There is no RPD QC limit set for field duplicates; however, a standard RPD limit of 50 was used for comparison purposes. The RPDs ranged from 0 to 50 percent which indicates good correlation.

8. MS and MSD Results

Extra volumes for MS and MSD were not provided to the laboratory and therefore, the laboratory did not analyze a site-specific MS/MSD with the analysis.

9. Overall Assessment

The metals data are acceptable for use as qualified based on the information received. Sample results were spot-checked against raw data and they appear to have been reported correctly.

MISCELLANEOUS PARAMETERS (pH by 9040B)

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
BG-RW01-100609	500-21700-1	Water	10/6/2009	10/9/2009
BG-RW02-100609	500-21700-2	Water	10/6/2009	10/9/2009
BG-RW02-100609	500-21700-3	Water	10/6/2009	10/9/2009
BG-SW01-100709	500-21700-4	Water	10/7/2009	10/9/2009
BG-SW02-100709	500-21700-5	Water	10/7/2009	10/9/2009

2. Holding Times

There is not specific holding time limit for pH; although, the method states that the analysis should be run as soon as possible. pH was analyzed between 2 and 3 days from sample collection.

3. Duplicate Results

Laboratory duplicates were analyzed with the pH analyses. The RPDs between he duplicate and parent sample were within the QC limit.

In addition the field duplicate RPD value was 0.8 percent indicating excellent correlation.

4. Overall Assessment

The pH data are acceptable for use based on the information received.

Data Validation Report
Bautsch Grey Mine Site
TestAmerica Laboratories, Inc.
Laboratory Project #: 500-21700-1

ATTACHMENT

TESTAMERICA LABORATORIES, INC.
RESULTS SUMMARY

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-21700-1

Job Description: Bautsch-Grey Mine

For:
Weston Solutions, Inc.
20 N Wacker Dr
Chicago, IL 60602-4206

Attention: Lisa Graczyk

Cindy Pritchard

Approved for release.
Cindy R Pritchard
Project Mgmt. Assistant
10/23/2009 11:38 AM

Designee for
Richard C Wright
Project Manager II
richard.wright@testamericainc.com
10/23/2009

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Chicago 2417 Bond Street, University Park, IL 60484
Tel (708) 534-5200 Fax (708) 534-5211 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270C: The ICV (Mix 1) that ran on inst. 1 on 10/09/09 at 18:57 had Nitrobenzene at 25.7% (high); Hexachlorocyclopentadiene at 30.5% (high) and 2,4,6-Trichlorophenol at 32.5% (high).BG-RW01-100609 (500-21700-1), BG-RW02-100609 (500-21700-2), BG-RW02-100609-D (500-21700-3), BG-SW01-100709 (500-21700-4), BG-SW02-100709 (500-21700-5)

No other analytical or quality issues were noted.

Metals
Method(s) 6020: The method blank for preparation batch 73329 contained Cd above the reporting limit (RL). All associated sample(s) that contained detects for this analyte at concentrations greater than 10X the value found in the method blank or were less than the RL were reported. All others were re-digested.

Method(s) 6020: The following samples were diluted due to the abundance of target analytes 500-21700-1, 4, 5. Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Weston Solutions, Inc. Job Number: 500-21700-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
500-21700-1	**BG-RW01-100609**					
pH		6.95	HF	0.200	SU	9040B
Total Recoverable						
Barium		0.016		0.0025	mg/L	6020
Cadmium		0.0011 J+		0.00050	mg/L	6020
Calcium		280		2.0	mg/L	6020
Copper		0.021	B	0.0020	mg/L	6020
Lead		0.027	B	0.00050	mg/L	6020
Magnesium		97		0.20	mg/L	6020
Manganese		0.0030		0.0025	mg/L	6020
Nickel		0.0024	B	0.0020	mg/L	6020
Potassium		1.5		0.50	mg/L	6020
Sodium		7.8	B	0.20	mg/L	6020
Thallium		0.00054	J	0.0020	mg/L	6020
Zinc		1.2	B	0.020	mg/L	6020
500-21700-2	**BG-RW02-100609**					
pH		7.01	HF	0.200	SU	9040B
Total Recoverable						
Arsenic		0.0014		0.0010	mg/L	6020
Barium		0.016		0.0025	mg/L	6020
Calcium		170		0.20	mg/L	6020
Cobalt		0.00080	J	0.0010	mg/L	6020
Copper		~~0.00095~~ ~~J B~~		0.0020 U	mg/L	6020
Iron		2.1		0.10	mg/L	6020
Lead		0.00079	B	0.00050	mg/L	6020
Magnesium		85		0.20	mg/L	6020
Manganese		0.18		0.0025	mg/L	6020
Nickel		0.0030	B	0.0020	mg/L	6020
Potassium		1.4		0.50	mg/L	6020
Sodium		6.6	B	0.20	mg/L	6020
Zinc		0.60	B	0.020	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Weston Solutions, Inc. Job Number: 500-21700-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
500-21700-3FD	**BG-RW02-100609-D**					
pH		7.09	HF	0.200	SU	9040B
Total Recoverable						
Arsenic		0.0014		0.0010	mg/L	6020
Barium		0.017		0.0025	mg/L	6020
Calcium		180		0.20	mg/L	6020
Cobalt		0.00079	J	0.0010	mg/L	6020
Copper		0.0012	J B	0.0020	mg/L	6020
Iron		2.2		0.10	mg/L	6020
Lead		0.0016	B	0.00050	mg/L	6020
Magnesium		88		0.20	mg/L	6020
Manganese		0.18		0.0025	mg/L	6020
Nickel		0.0029	B	0.0020	mg/L	6020
Potassium		1.5		0.50	mg/L	6020
Sodium		6.8	B	0.20	mg/L	6020
Zinc		0.62	B	0.020	mg/L	6020
500-21700-4	**BG-SW01-100709**					
Acetone		0.0071		0.0050	mg/L	8260B
Mercury		0.00039		0.00020	mg/L	7470A
pH		7.27	HF	0.200	SU	9040B
Total Recoverable						
Aluminum		27		0.10	mg/L	6020
Antimony		0.0045	J	0.010	mg/L	6020
Arsenic		0.22		0.020	mg/L	6020
Barium		0.18		0.0025	mg/L	6020
Beryllium		0.0041		0.0010	mg/L	6020
Cadmium		0.39	B	0.0025	mg/L	6020
Calcium		1300		4.0	mg/L	6020
Chromium		0.047	J	0.10	mg/L	6020
Cobalt		0.19		0.020	mg/L	6020
Copper		0.40	B	0.040	mg/L	6020
Iron		230		2.0	mg/L	6020
Lead		63	B	0.010	mg/L	6020
Magnesium		250		1.0	mg/L	6020
Magnesium		260		4.0	mg/L	6020
Manganese		7.1		0.050	mg/L	6020
Nickel		0.37	B	0.040	mg/L	6020
Potassium		23		0.50	mg/L	6020
Silver		0.0073		0.00050	mg/L	6020
Sodium		0.96	J B	1.0	mg/L	6020
Thallium		0.0039		0.0020	mg/L	6020
Vanadium		0.029	J	0.10	mg/L	6020
Zinc		130	B	2.0	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Weston Solutions, Inc. Job Number: 500-21700-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
500-21700-5	**BG-SW02-100709**					
pH		7.60	HF	0.200	SU	9040B
Total Recoverable						
Aluminum		0.025	J	0.10	mg/L	6020
Arsenic		0.00029	J	0.0010	mg/L	6020
Barium		0.022		0.0025	mg/L	6020
Cadmium		0.0012 J+		0.00050	mg/L	6020
Calcium		400		2.0	mg/L	6020
Cobalt		0.0011		0.0010	mg/L	6020
Copper		0.0037	B	0.0020	mg/L	6020
Iron		0.25		0.10	mg/L	6020
Lead		0.020	B	0.00050	mg/L	6020
Magnesium		64		0.20	mg/L	6020
Manganese		0.087		0.0025	mg/L	6020
Nickel		0.016	B	0.0020	mg/L	6020
Potassium		3.9		0.50	mg/L	6020
Sodium		7.4	B	0.20	mg/L	6020
Zinc		3.2	B	0.020	mg/L	6020

METHOD SUMMARY

Client: Weston Solutions, Inc. Job Number: 500-21700-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CHI	SW846 8260B	
Purge and Trap	TAL CHI		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL CHI	SW846 8270C	
Liquid-Liquid Extraction (Separatory Funnel)	TAL CHI		SW846 3510C
Metals (ICP/MS)	TAL CHI	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL CHI		SW846 3005A
Mercury (CVAA)	TAL CHI	SW846 7470A	
Preparation, Mercury	TAL CHI		SW846 7470A
pH	TAL CHI	SW846 9040B	

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Weston Solutions, Inc. Job Number: 500-21700-1

Method	Analyst	Analyst ID
SW846 8260B	Aikpala, Elaine	EA
SW846 8270C	Akcakal, Duran	DA
SW846 6020	Kolarczyk, Paul F	PFK
SW846 7470A	Klee, George O	GOK
SW846 9040B	Moore, Colleen L	CLM

SAMPLE SUMMARY

Client: Weston Solutions, Inc. Job Number: 500-21700-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-21700-1	BG-RW01-100609	Water	10/06/2009 1700	10/09/2009 1445
500-21700-2	BG-RW02-100609	Water	10/06/2009 1750	10/09/2009 1445
500-21700-3FD	BG-RW02-100609-D	Water	10/06/2009 1755	10/09/2009 1445
500-21700-4	BG-SW01-100709	Water	10/07/2009 1500	10/09/2009 1445
500-21700-5	BG-SW02-100709	Water	10/07/2009 1545	10/09/2009 1445
500-21700-6TB	TRIP BLANK	Water	10/06/2009 0000	10/09/2009 1445

SAMPLE RESULTS

Lisa Graczyk
Weston Solutions, Inc.
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Job Number: 500-21700-1

Client Sample ID: BG-RW01-100609
Lab Sample ID: 500-21700-1

Date Sampled: 10/06/2009 1700
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/14/2009 0232		
Prep Method: 5030B		Date Prepared:	10/14/2009 0232		
Acetone	<0.0050	mg/L	0.0021	0.0050	1.0
Benzene	<0.0010	mg/L	0.00015	0.0010	1.0
Bromodichloromethane	<0.0010	mg/L	0.00013	0.0010	1.0
Bromoform	<0.0010	mg/L	0.00030	0.0010	1.0
Bromomethane	<0.0010 UJ	mg/L	0.00045	0.0010	1.0
Carbon disulfide	<0.0050	mg/L	0.00066	0.0050	1.0
Carbon tetrachloride	<0.0010	mg/L	0.00032	0.0010	1.0
Chlorobenzene	<0.0010	mg/L	0.00017	0.0010	1.0
Chloroethane	<0.0010	mg/L	0.00036	0.0010	1.0
Chloroform	<0.0010	mg/L	0.00015	0.0010	1.0
Chloromethane	<0.0010	mg/L	0.00014	0.0010	1.0
cis-1,2-Dichloroethene	<0.0010	mg/L	0.00015	0.0010	1.0
cis-1,3-Dichloropropene	<0.0010	mg/L	0.00016	0.0010	1.0
Dibromochloromethane	<0.0010	mg/L	0.00017	0.0010	1.0
1,1-Dichloroethane	<0.0010	mg/L	0.00012	0.0010	1.0
1,2-Dichloroethane	<0.0010	mg/L	0.00014	0.0010	1.0
1,1-Dichloroethene	<0.0010	mg/L	0.00023	0.0010	1.0
1,2-Dichloropropane	<0.0010	mg/L	0.00019	0.0010	1.0
1,3-Dichloropropene, Total	<0.0010	mg/L	0.00021	0.0010	1.0
Ethylbenzene	<0.0010	mg/L	0.00022	0.0010	1.0
2-Hexanone	<0.0050	mg/L	0.00077	0.0050	1.0
Methylene Chloride	<0.0020	mg/L	0.00052	0.0020	1.0
Methyl Ethyl Ketone	<0.0050	mg/L	0.0028	0.0050	1.0
methyl isobutyl ketone	<0.0050	mg/L	0.00077	0.0050	1.0
Methyl tert-butyl ether	<0.0010	mg/L	0.00016	0.0010	1.0
Styrene	<0.0010	mg/L	0.00017	0.0010	1.0
1,1,2,2-Tetrachloroethane	<0.0010	mg/L	0.00027	0.0010	1.0
Tetrachloroethene	<0.0010	mg/L	0.00020	0.0010	1.0
Toluene	<0.0010	mg/L	0.00017	0.0010	1.0
trans-1,2-Dichloroethene	<0.0010	mg/L	0.00018	0.0010	1.0
trans-1,3-Dichloropropene	<0.0010	mg/L	0.00021	0.0010	1.0
1,1,1-Trichloroethane	<0.0010	mg/L	0.00014	0.0010	1.0
1,1,2-Trichloroethane	<0.0010	mg/L	0.00022	0.0010	1.0
Trichloroethene	<0.0010	mg/L	0.00016	0.0010	1.0
Vinyl chloride	<0.0010	mg/L	0.00015	0.0010	1.0
Xylenes, Total	<0.0020	mg/L	0.00042	0.0020	1.0
Surrogate			Acceptance Limits		
4-Bromofluorobenzene (Surr)	89	%	77 - 120		

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Job Number: 500-21700-1

Client Sample ID: BG-RW01-100609
Lab Sample ID: 500-21700-1

Date Sampled: 10/06/2009 1700
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Surrogate				Acceptance Limits	
Dibromofluoromethane	110	%		79 - 133	
1,2-Dichloroethane-d4 (Surr)	110	%		72 - 135	
Toluene-d8 (Surr)	95	%		80 - 120	
Method: 8270C		Date Analyzed:		10/13/2009 1616	
Prep Method: 3510C		Date Prepared:		10/12/2009 0803	
Acenaphthene	<0.00094	mg/L	0.000055	0.00094	1.0
Acenaphthylene	<0.00094	mg/L	0.000055	0.00094	1.0
Anthracene	<0.00094	mg/L	0.000064	0.00094	1.0
Benzo[a]anthracene	<0.00012	mg/L	0.000062	0.00012	1.0
Benzo[a]pyrene	<0.00019	mg/L	0.000042	0.00019	1.0
Benzo[b]fluoranthene	<0.00017	mg/L	0.000040	0.00017	1.0
Benzo[g,h,i]perylene	<0.00094	mg/L	0.00010	0.00094	1.0
Benzo[k]fluoranthene	<0.00016	mg/L	0.000075	0.00016	1.0
Bis(2-chloroethoxy)methane	<0.0019	mg/L	0.00013	0.0019	1.0
Bis(2-chloroethyl)ether	<0.0019	mg/L	0.00023	0.0019	1.0
Bis(2-ethylhexyl) phthalate	<0.0094	mg/L	0.0018	0.0094	1.0
4-Bromophenyl phenyl ether	<0.0047	mg/L	0.00015	0.0047	1.0
Butyl benzyl phthalate	<0.0019	mg/L	0.00019	0.0019	1.0
Carbazole	<0.0047	mg/L	0.00077	0.0047	1.0
4-Chloroaniline	<0.0094	mg/L	0.00074	0.0094	1.0
4-Chloro-3-methylphenol	<0.0094	mg/L	0.0023	0.0094	1.0
2-Chloronaphthalene	<0.0019	mg/L	0.00016	0.0019	1.0
2-Chlorophenol	<0.0047	mg/L	0.00020	0.0047	1.0
4-Chlorophenyl phenyl ether	<0.0047	mg/L	0.00023	0.0047	1.0
Chrysene	<0.00047	mg/L	0.000064	0.00047	1.0
Dibenz(a,h)anthracene	<0.00028	mg/L	0.000054	0.00028	1.0
Dibenzofuran	<0.0019	mg/L	0.00023	0.0019	1.0
1,2-Dichlorobenzene	<0.0019	mg/L	0.00019	0.0019	1.0
1,3-Dichlorobenzene	<0.0019	mg/L	0.00020	0.0019	1.0
1,4-Dichlorobenzene	<0.0019	mg/L	0.00019	0.0019	1.0
3,3'-Dichlorobenzidine	<0.0047	mg/L	0.00024	0.0047	1.0
2,4-Dichlorophenol	<0.0094	mg/L	0.0030	0.0094	1.0
Diethyl phthalate	<0.0019	mg/L	0.00019	0.0019	1.0
2,4-Dimethylphenol	<0.0094	mg/L	0.0010	0.0094	1.0
Dimethyl phthalate	<0.0019	mg/L	0.00012	0.0019	1.0
Di-n-butyl phthalate	<0.0047	mg/L	0.00060	0.0047	1.0
4,6-Dinitro-2-methylphenol	<0.019	mg/L	0.0017	0.019	1.0
2,4-Dinitrophenol	<0.019	mg/L	0.0029	0.019	1.0
2,4-Dinitrotoluene	<0.00094	mg/L	0.00042	0.00094	1.0

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Job Number: 500-21700-1

Client Sample ID: BG-RW01-100609
Lab Sample ID: 500-21700-1

Date Sampled: 10/06/2009 1700
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
2,6-Dinitrotoluene	<0.00047	mg/L	0.00011	0.00047	1.0
Di-n-octyl phthalate	<0.0094	mg/L	0.0016	0.0094	1.0
Fluoranthene	<0.00094	mg/L	0.000064	0.00094	1.0
Fluorene	<0.00094	mg/L	0.000054	0.00094	1.0
Hexachlorobenzene	<0.00047	mg/L	0.000062	0.00047	1.0
Hexachlorobutadiene	<0.0047	mg/L	0.00024	0.0047	1.0
Hexachlorocyclopentadiene	<0.019	mg/L	0.0042	0.019	1.0
Hexachloroethane	<0.0047	mg/L	0.00024	0.0047	1.0
Indeno[1,2,3-cd]pyrene	<0.00019	mg/L	0.000068	0.00019	1.0
Isophorone	<0.0019	mg/L	0.00055	0.0019	1.0
2-Methylnaphthalene	<0.00047	mg/L	0.00015	0.00047	1.0
2-Methylphenol	<0.0019	mg/L	0.00041	0.0019	1.0
3 & 4 Methylphenol	<0.0019	mg/L	0.00018	0.0019	1.0
Naphthalene	<0.00094	mg/L	0.000094	0.00094	1.0
2-Nitroaniline	<0.0047	mg/L	0.00052	0.0047	1.0
3-Nitroaniline	<0.0094	mg/L	0.00094	0.0094	1.0
4-Nitroaniline	<0.0094	mg/L	0.0022	0.0094	1.0
Nitrobenzene	<0.00094	mg/L	0.00028	0.00094	1.0
2-Nitrophenol	<0.0094	mg/L	0.00060	0.0094	1.0
4-Nitrophenol	<0.019	mg/L	0.0023	0.019	1.0
N-Nitrosodi-n-propylamine	<0.00047	mg/L	0.00014	0.00047	1.0
N-Nitrosodiphenylamine	<0.00094	mg/L	0.00019	0.00094	1.0
2,2'-oxybis[1-chloropropane]	<0.0019	mg/L	0.00019	0.0019	1.0
Pentachlorophenol	<0.019	mg/L	0.0020	0.019	1.0
Phenanthrene	<0.00094	mg/L	0.000067	0.00094	1.0
Phenol	<0.0047	mg/L	0.0012	0.0047	1.0
Pyrene	<0.00094	mg/L	0.000067	0.00094	1.0
1,2,4-Trichlorobenzene	<0.0019	mg/L	0.00023	0.0019	1.0
2,4,5-Trichlorophenol	<0.0094	mg/L	0.0025	0.0094	1.0
2,4,6-Trichlorophenol	<0.0047	mg/L	0.00063	0.0047	1.0

Surrogate			Acceptance Limits
2-Fluorobiphenyl	73	%	37 - 120
2-Fluorophenol	41	%	20 - 110
Nitrobenzene-d5	68	%	42 - 120
Phenol-d5	27	%	20 - 110
Terphenyl-d14	84	%	39 - 120
2,4,6-Tribromophenol	78	%	41 - 122

Method: Total Recoverable-6020 Date Analyzed: 10/12/2009 1419
Prep Method: 3005A Date Prepared: 10/12/2009 0730

Aluminum	<0.10	mg/L	0.022	0.10	1.0

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Job Number: 500-21700-1

Client Sample ID: BG-RW01-100609
Lab Sample ID: 500-21700-1

Date Sampled: 10/06/2009 1700
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Arsenic	<0.0010		mg/L	0.00015	0.0010	1.0
Barium	0.016		mg/L	0.00057	0.0025	1.0
Chromium	<0.0050		mg/L	0.00084	0.0050	1.0
Copper	0.021	B	mg/L	0.00046	0.0020	1.0
Iron	<0.10		mg/L	0.024	0.10	1.0
Manganese	0.0030		mg/L	0.00028	0.0025	1.0
Nickel	0.0024	B	mg/L	0.00024	0.0020	1.0
Potassium	1.5		mg/L	0.10	0.50	1.0
Selenium	<0.0025		mg/L	0.00043	0.0025	1.0
Silver	<0.00050		mg/L	0.000094	0.00050	1.0
Thallium	0.00054	J	mg/L	0.00030	0.0020	1.0
Vanadium	<0.0050		mg/L	0.00061	0.0050	1.0
Zinc	1.2	B	mg/L	0.0066	0.020	1.0
Method: Total Recoverable-6020			Date Analyzed:	10/12/2009 2009		
Prep Method: 3005A			Date Prepared:	10/12/2009 0730		
Beryllium	<0.0010		mg/L	0.00027	0.0010	1.0
Method: Total Recoverable-6020			Date Analyzed:	10/14/2009 1400		
Prep Method: 3005A			Date Prepared:	10/12/2009 0730		
Antimony	<0.0020		mg/L	0.00016	0.0020	1.0
Cobalt	<0.0010		mg/L	0.000053	0.0010	1.0
Lead	0.027	B	mg/L	0.000050	0.00050	1.0
Magnesium	97		mg/L	0.024	0.20	1.0
Sodium	7.8	B	mg/L	0.024	0.20	1.0
Method: Total Recoverable-6020			Date Analyzed:	10/19/2009 1941		
Prep Method: 3005A			Date Prepared:	10/19/2009 0800		
Cadmium	0.0011 J+		mg/L	0.00016	0.00050	1.0
Method: Total Recoverable-6020			Date Analyzed:	10/20/2009 1713		
Prep Method: 3005A			Date Prepared:	10/12/2009 0730		
Calcium	280		mg/L	0.71	2.0	10
Method: 7470A			Date Analyzed:	10/13/2009 1358		
Prep Method: 7470A			Date Prepared:	10/13/2009 0915		
Mercury	<0.00020		mg/L	0.000078	0.00020	1.0
Method: 9040B			Date Analyzed:	10/09/2009 1459		
pH	6.95	HF	SU	0.200	0.200	1.0

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Job Number: 500-21700-1

Client Sample ID: BG-RW02-100609
Lab Sample ID: 500-21700-2

Date Sampled: 10/06/2009 1750
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/14/2009 0253		
Prep Method: 5030B		Date Prepared:	10/14/2009 0253		
Acetone	<0.0050	mg/L	0.0021	0.0050	1.0
Benzene	<0.0010	mg/L	0.00015	0.0010	1.0
Bromodichloromethane	<0.0010	mg/L	0.00013	0.0010	1.0
Bromoform	<0.0010	mg/L	0.00030	0.0010	1.0
Bromomethane	<0.0010 UJ	mg/L	0.00045	0.0010	1.0
Carbon disulfide	<0.0050	mg/L	0.00066	0.0050	1.0
Carbon tetrachloride	<0.0010	mg/L	0.00032	0.0010	1.0
Chlorobenzene	<0.0010	mg/L	0.00017	0.0010	1.0
Chloroethane	<0.0010	mg/L	0.00036	0.0010	1.0
Chloroform	<0.0010	mg/L	0.00015	0.0010	1.0
Chloromethane	<0.0010	mg/L	0.00014	0.0010	1.0
cis-1,2-Dichloroethene	<0.0010	mg/L	0.00015	0.0010	1.0
cis-1,3-Dichloropropene	<0.0010	mg/L	0.00016	0.0010	1.0
Dibromochloromethane	<0.0010	mg/L	0.00017	0.0010	1.0
1,1-Dichloroethane	<0.0010	mg/L	0.00012	0.0010	1.0
1,2-Dichloroethane	<0.0010	mg/L	0.00014	0.0010	1.0
1,1-Dichloroethene	<0.0010	mg/L	0.00023	0.0010	1.0
1,2-Dichloropropane	<0.0010	mg/L	0.00019	0.0010	1.0
1,3-Dichloropropene, Total	<0.0010	mg/L	0.00021	0.0010	1.0
Ethylbenzene	<0.0010	mg/L	0.00022	0.0010	1.0
2-Hexanone	<0.0050	mg/L	0.00077	0.0050	1.0
Methylene Chloride	<0.0020	mg/L	0.00052	0.0020	1.0
Methyl Ethyl Ketone	<0.0050	mg/L	0.0028	0.0050	1.0
methyl isobutyl ketone	<0.0050	mg/L	0.00077	0.0050	1.0
Methyl tert-butyl ether	<0.0010	mg/L	0.00016	0.0010	1.0
Styrene	<0.0010	mg/L	0.00017	0.0010	1.0
1,1,2,2-Tetrachloroethane	<0.0010	mg/L	0.00027	0.0010	1.0
Tetrachloroethene	<0.0010	mg/L	0.00020	0.0010	1.0
Toluene	<0.0010	mg/L	0.00017	0.0010	1.0
trans-1,2-Dichloroethene	<0.0010	mg/L	0.00018	0.0010	1.0
trans-1,3-Dichloropropene	<0.0010	mg/L	0.00021	0.0010	1.0
1,1,1-Trichloroethane	<0.0010	mg/L	0.00014	0.0010	1.0
1,1,2-Trichloroethane	<0.0010	mg/L	0.00022	0.0010	1.0
Trichloroethene	<0.0010	mg/L	0.00016	0.0010	1.0
Vinyl chloride	<0.0010	mg/L	0.00015	0.0010	1.0
Xylenes, Total	<0.0020	mg/L	0.00042	0.0020	1.0
Surrogate				Acceptance Limits	
4-Bromofluorobenzene (Surr)	88	%		77 - 120	

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Job Number: 500-21700-1

Client Sample ID: BG-RW02-100609
Lab Sample ID: 500-21700-2

Date Sampled: 10/06/2009 1750
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Surrogate				Acceptance Limits	
Dibromofluoromethane	112	%		79 - 133	
1,2-Dichloroethane-d4 (Surr)	113	%		72 - 135	
Toluene-d8 (Surr)	95	%		80 - 120	
Method: 8270C		Date Analyzed:	10/13/2009 1639		
Prep Method: 3510C		Date Prepared:	10/12/2009 0803		
Acenaphthene	<0.00093	mg/L	0.000054	0.00093	1.0
Acenaphthylene	<0.00093	mg/L	0.000054	0.00093	1.0
Anthracene	<0.00093	mg/L	0.000064	0.00093	1.0
Benzo[a]anthracene	<0.00012	mg/L	0.000062	0.00012	1.0
Benzo[a]pyrene	<0.00019	mg/L	0.000041	0.00019	1.0
Benzo[b]fluoranthene	<0.00017	mg/L	0.000039	0.00017	1.0
Benzo[g,h,i]perylene	<0.00093	mg/L	0.00010	0.00093	1.0
Benzo[k]fluoranthene	<0.00016	mg/L	0.000074	0.00016	1.0
Bis(2-chloroethoxy)methane	<0.0019	mg/L	0.00013	0.0019	1.0
Bis(2-chloroethyl)ether	<0.0019	mg/L	0.00022	0.0019	1.0
Bis(2-ethylhexyl) phthalate	<0.0093	mg/L	0.0018	0.0093	1.0
4-Bromophenyl phenyl ether	<0.0047	mg/L	0.00015	0.0047	1.0
Butyl benzyl phthalate	<0.0019	mg/L	0.00019	0.0019	1.0
Carbazole	<0.0047	mg/L	0.00077	0.0047	1.0
4-Chloroaniline	<0.0093	mg/L	0.00073	0.0093	1.0
4-Chloro-3-methylphenol	<0.0093	mg/L	0.0022	0.0093	1.0
2-Chloronaphthalene	<0.0019	mg/L	0.00016	0.0019	1.0
2-Chlorophenol	<0.0047	mg/L	0.00020	0.0047	1.0
4-Chlorophenyl phenyl ether	<0.0047	mg/L	0.00022	0.0047	1.0
Chrysene	<0.00047	mg/L	0.000064	0.00047	1.0
Dibenz(a,h)anthracene	<0.00028	mg/L	0.000053	0.00028	1.0
Dibenzofuran	<0.0019	mg/L	0.00022	0.0019	1.0
1,2-Dichlorobenzene	<0.0019	mg/L	0.00019	0.0019	1.0
1,3-Dichlorobenzene	<0.0019	mg/L	0.00020	0.0019	1.0
1,4-Dichlorobenzene	<0.0019	mg/L	0.00019	0.0019	1.0
3,3'-Dichlorobenzidine	<0.0047	mg/L	0.00023	0.0047	1.0
2,4-Dichlorophenol	<0.0093	mg/L	0.0030	0.0093	1.0
Diethyl phthalate	<0.0019	mg/L	0.00019	0.0019	1.0
2,4-Dimethylphenol	<0.0093	mg/L	0.0010	0.0093	1.0
Dimethyl phthalate	<0.0019	mg/L	0.00012	0.0019	1.0
Di-n-butyl phthalate	<0.0047	mg/L	0.00060	0.0047	1.0
4,6-Dinitro-2-methylphenol	<0.019	mg/L	0.0017	0.019	1.0
2,4-Dinitrophenol	<0.019	mg/L	0.0029	0.019	1.0
2,4-Dinitrotoluene	<0.00093	mg/L	0.00042	0.00093	1.0

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Job Number: 500-21700-1

Client Sample ID: BG-RW02-100609
Lab Sample ID: 500-21700-2

Date Sampled: 10/06/2009 1750
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
2,6-Dinitrotoluene	<0.00047	mg/L	0.00011	0.00047	1.0
Di-n-octyl phthalate	<0.0093	mg/L	0.0016	0.0093	1.0
Fluoranthene	<0.00093	mg/L	0.000064	0.00093	1.0
Fluorene	<0.00093	mg/L	0.000053	0.00093	1.0
Hexachlorobenzene	<0.00047	mg/L	0.000062	0.00047	1.0
Hexachlorobutadiene	<0.0047	mg/L	0.00023	0.0047	1.0
Hexachlorocyclopentadiene	<0.019	mg/L	0.0041	0.019	1.0
Hexachloroethane	<0.0047	mg/L	0.00023	0.0047	1.0
Indeno[1,2,3-cd]pyrene	<0.00019	mg/L	0.000067	0.00019	1.0
Isophorone	<0.0019	mg/L	0.00054	0.0019	1.0
2-Methylnaphthalene	<0.00047	mg/L	0.00015	0.00047	1.0
2-Methylphenol	<0.0019	mg/L	0.00040	0.0019	1.0
3 & 4 Methylphenol	<0.0019	mg/L	0.00018	0.0019	1.0
Naphthalene	<0.00093	mg/L	0.000093	0.00093	1.0
2-Nitroaniline	<0.0047	mg/L	0.00051	0.0047	1.0
3-Nitroaniline	<0.0093	mg/L	0.00093	0.0093	1.0
4-Nitroaniline	<0.0093	mg/L	0.0021	0.0093	1.0
Nitrobenzene	<0.00093	mg/L	0.00028	0.00093	1.0
2-Nitrophenol	<0.0093	mg/L	0.00060	0.0093	1.0
4-Nitrophenol	<0.019	mg/L	0.0022	0.019	1.0
N-Nitrosodi-n-propylamine	<0.00047	mg/L	0.00014	0.00047	1.0
N-Nitrosodiphenylamine	<0.00093	mg/L	0.00019	0.00093	1.0
2,2'-oxybis[1-chloropropane]	<0.0019	mg/L	0.00019	0.0019	1.0
Pentachlorophenol	<0.019	mg/L	0.0020	0.019	1.0
Phenanthrene	<0.00093	mg/L	0.000066	0.00093	1.0
Phenol	<0.0047	mg/L	0.0012	0.0047	1.0
Pyrene	<0.00093	mg/L	0.000066	0.00093	1.0
1,2,4-Trichlorobenzene	<0.0019	mg/L	0.00022	0.0019	1.0
2,4,5-Trichlorophenol	<0.0093	mg/L	0.0024	0.0093	1.0
2,4,6-Trichlorophenol	<0.0047	mg/L	0.00063	0.0047	1.0

Surrogate			Acceptance Limits
2-Fluorobiphenyl	75	%	37 - 120
2-Fluorophenol	41	%	20 - 110
Nitrobenzene-d5	67	%	42 - 120
Phenol-d5	27	%	20 - 110
Terphenyl-d14	84	%	39 - 120
2,4,6-Tribromophenol	78	%	41 - 122

Method: Total Recoverable-6020 Date Analyzed: 10/12/2009 1424
Prep Method: 3005A Date Prepared: 10/12/2009 0730

Aluminum	<0.10	mg/L	0.022	0.10	1.0

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Job Number: 500-21700-1

Client Sample ID: **BG-RW02-100609**
Lab Sample ID: **500-21700-2**

Date Sampled: 10/06/2009 1750
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Arsenic	0.0014		mg/L	0.00015	0.0010	1.0
Barium	0.016		mg/L	0.00057	0.0025	1.0
Calcium	170		mg/L	0.071	0.20	1.0
Chromium	<0.0050		mg/L	0.00084	0.0050	1.0
Copper	0.00095	J B	mg/L	0.00046	0.0020	1.0
Iron	2.1		mg/L	0.024	0.10	1.0
Manganese	0.18		mg/L	0.00028	0.0025	1.0
Nickel	0.0030	B	mg/L	0.00024	0.0020	1.0
Potassium	1.4		mg/L	0.10	0.50	1.0
Selenium	<0.0025		mg/L	0.00043	0.0025	1.0
Silver	<0.00050		mg/L	0.000094	0.00050	1.0
Thallium	<0.0020		mg/L	0.00030	0.0020	1.0
Vanadium	<0.0050		mg/L	0.00061	0.0050	1.0
Zinc	0.60	B	mg/L	0.0066	0.020	1.0
Method: Total Recoverable-6020			Date Analyzed:	10/12/2009 2013		
Prep Method: 3005A			Date Prepared:	10/12/2009 0730		
Beryllium	<0.0010		mg/L	0.00027	0.0010	1.0
Method: Total Recoverable-6020			Date Analyzed:	10/14/2009 1405		
Prep Method: 3005A			Date Prepared:	10/12/2009 0730		
Antimony	<0.0020		mg/L	0.00016	0.0020	1.0
Cadmium	<0.00050		mg/L	0.00016	0.00050	1.0
Cobalt	0.00080	J	mg/L	0.000053	0.0010	1.0
Lead	0.00079	B	mg/L	0.000050	0.00050	1.0
Magnesium	85		mg/L	0.024	0.20	1.0
Sodium	6.6	B	mg/L	0.024	0.20	1.0
Method: 7470A			Date Analyzed:	10/13/2009 1400		
Prep Method: 7470A			Date Prepared:	10/13/2009 0915		
Mercury	<0.00020		mg/L	0.000078	0.00020	1.0
Method: 9040B			Date Analyzed:	10/09/2009 1508		
pH	7.01	HF	SU	0.200	0.200	1.0

0.0020U

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Job Number: 500-21700-1

Client Sample ID: BG-RW02-100609-D
Lab Sample ID: 500-21700-3

Date Sampled: 10/06/2009 1755
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/14/2009 0315		
Prep Method: 5030B		Date Prepared:	10/14/2009 0315		
Acetone	<0.0050	mg/L	0.0021	0.0050	1.0
Benzene	<0.0010	mg/L	0.00015	0.0010	1.0
Bromodichloromethane	<0.0010	mg/L	0.00013	0.0010	1.0
Bromoform	<0.0010	mg/L	0.00030	0.0010	1.0
Bromomethane	<0.0010 UJ	mg/L	0.00045	0.0010	1.0
Carbon disulfide	<0.0050	mg/L	0.00066	0.0050	1.0
Carbon tetrachloride	<0.0010	mg/L	0.00032	0.0010	1.0
Chlorobenzene	<0.0010	mg/L	0.00017	0.0010	1.0
Chloroethane	<0.0010	mg/L	0.00036	0.0010	1.0
Chloroform	<0.0010	mg/L	0.00015	0.0010	1.0
Chloromethane	<0.0010	mg/L	0.00014	0.0010	1.0
cis-1,2-Dichloroethene	<0.0010	mg/L	0.00015	0.0010	1.0
cis-1,3-Dichloropropene	<0.0010	mg/L	0.00016	0.0010	1.0
Dibromochloromethane	<0.0010	mg/L	0.00017	0.0010	1.0
1,1-Dichloroethane	<0.0010	mg/L	0.00012	0.0010	1.0
1,2-Dichloroethane	<0.0010	mg/L	0.00014	0.0010	1.0
1,1-Dichloroethene	<0.0010	mg/L	0.00023	0.0010	1.0
1,2-Dichloropropane	<0.0010	mg/L	0.00019	0.0010	1.0
1,3-Dichloropropene, Total	<0.0010	mg/L	0.00021	0.0010	1.0
Ethylbenzene	<0.0010	mg/L	0.00022	0.0010	1.0
2-Hexanone	<0.0050	mg/L	0.00077	0.0050	1.0
Methylene Chloride	<0.0020	mg/L	0.00052	0.0020	1.0
Methyl Ethyl Ketone	<0.0050	mg/L	0.0028	0.0050	1.0
methyl isobutyl ketone	<0.0050	mg/L	0.00077	0.0050	1.0
Methyl tert-butyl ether	<0.0010	mg/L	0.00016	0.0010	1.0
Styrene	<0.0010	mg/L	0.00017	0.0010	1.0
1,1,2,2-Tetrachloroethane	<0.0010	mg/L	0.00027	0.0010	1.0
Tetrachloroethene	<0.0010	mg/L	0.00020	0.0010	1.0
Toluene	<0.0010	mg/L	0.00017	0.0010	1.0
trans-1,2-Dichloroethene	<0.0010	mg/L	0.00018	0.0010	1.0
trans-1,3-Dichloropropene	<0.0010	mg/L	0.00021	0.0010	1.0
1,1,1-Trichloroethane	<0.0010	mg/L	0.00014	0.0010	1.0
1,1,2-Trichloroethane	<0.0010	mg/L	0.00022	0.0010	1.0
Trichloroethene	<0.0010	mg/L	0.00016	0.0010	1.0
Vinyl chloride	<0.0010	mg/L	0.00015	0.0010	1.0
Xylenes, Total	<0.0020	mg/L	0.00042	0.0020	1.0
Surrogate			Acceptance Limits		
4-Bromofluorobenzene (Surr)	89	%	77 - 120		

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Job Number: 500-21700-1

Client Sample ID: BG-RW02-100609-D
Lab Sample ID: 500-21700-3

Date Sampled: 10/06/2009 1755
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Surrogate				Acceptance Limits	
Dibromofluoromethane	112	%		79 - 133	
1,2-Dichloroethane-d4 (Surr)	110	%		72 - 135	
Toluene-d8 (Surr)	95	%		80 - 120	
Method: 8270C		Date Analyzed:		10/13/2009 1702	
Prep Method: 3510C		Date Prepared:		10/12/2009 0803	
Acenaphthene	<0.00093	mg/L	0.000054	0.00093	1.0
Acenaphthylene	<0.00093	mg/L	0.000054	0.00093	1.0
Anthracene	<0.00093	mg/L	0.000064	0.00093	1.0
Benzo[a]anthracene	<0.00012	mg/L	0.000062	0.00012	1.0
Benzo[a]pyrene	<0.00019	mg/L	0.000041	0.00019	1.0
Benzo[b]fluoranthene	<0.00017	mg/L	0.000039	0.00017	1.0
Benzo[g,h,i]perylene	<0.00093	mg/L	0.00010	0.00093	1.0
Benzo[k]fluoranthene	<0.00016	mg/L	0.000074	0.00016	1.0
Bis(2-chloroethoxy)methane	<0.0019	mg/L	0.00013	0.0019	1.0
Bis(2-chloroethyl)ether	<0.0019	mg/L	0.00022	0.0019	1.0
Bis(2-ethylhexyl) phthalate	<0.0093	mg/L	0.0018	0.0093	1.0
4-Bromophenyl phenyl ether	<0.0047	mg/L	0.00015	0.0047	1.0
Butyl benzyl phthalate	<0.0019	mg/L	0.00019	0.0019	1.0
Carbazole	<0.0047	mg/L	0.00077	0.0047	1.0
4-Chloroaniline	<0.0093	mg/L	0.00073	0.0093	1.0
4-Chloro-3-methylphenol	<0.0093	mg/L	0.0022	0.0093	1.0
2-Chloronaphthalene	<0.0019	mg/L	0.00016	0.0019	1.0
2-Chlorophenol	<0.0047	mg/L	0.00020	0.0047	1.0
4-Chlorophenyl phenyl ether	<0.0047	mg/L	0.00022	0.0047	1.0
Chrysene	<0.00047	mg/L	0.000064	0.00047	1.0
Dibenz(a,h)anthracene	<0.00028	mg/L	0.000053	0.00028	1.0
Dibenzofuran	<0.0019	mg/L	0.00022	0.0019	1.0
1,2-Dichlorobenzene	<0.0019	mg/L	0.00019	0.0019	1.0
1,3-Dichlorobenzene	<0.0019	mg/L	0.00020	0.0019	1.0
1,4-Dichlorobenzene	<0.0019	mg/L	0.00019	0.0019	1.0
3,3'-Dichlorobenzidine	<0.0047	mg/L	0.00023	0.0047	1.0
2,4-Dichlorophenol	<0.0093	mg/L	0.0030	0.0093	1.0
Diethyl phthalate	<0.0019	mg/L	0.00019	0.0019	1.0
2,4-Dimethylphenol	<0.0093	mg/L	0.0010	0.0093	1.0
Dimethyl phthalate	<0.0019	mg/L	0.00012	0.0019	1.0
Di-n-butyl phthalate	<0.0047	mg/L	0.00060	0.0047	1.0
4,6-Dinitro-2-methylphenol	<0.019	mg/L	0.0017	0.019	1.0
2,4-Dinitrophenol	<0.019	mg/L	0.0029	0.019	1.0
2,4-Dinitrotoluene	<0.00093	mg/L	0.00042	0.00093	1.0

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Job Number: 500-21700-1

Client Sample ID: BG-RW02-100609-D
Lab Sample ID: 500-21700-3

Date Sampled: 10/06/2009 1755
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
2,6-Dinitrotoluene	<0.00047	mg/L	0.00011	0.00047	1.0
Di-n-octyl phthalate	<0.0093	mg/L	0.0016	0.0093	1.0
Fluoranthene	<0.00093	mg/L	0.000064	0.00093	1.0
Fluorene	<0.00093	mg/L	0.000053	0.00093	1.0
Hexachlorobenzene	<0.00047	mg/L	0.000062	0.00047	1.0
Hexachlorobutadiene	<0.0047	mg/L	0.00023	0.0047	1.0
Hexachlorocyclopentadiene	<0.019	mg/L	0.0041	0.019	1.0
Hexachloroethane	<0.0047	mg/L	0.00023	0.0047	1.0
Indeno[1,2,3-cd]pyrene	<0.00019	mg/L	0.000067	0.00019	1.0
Isophorone	<0.0019	mg/L	0.00054	0.0019	1.0
2-Methylnaphthalene	<0.00047	mg/L	0.00015	0.00047	1.0
2-Methylphenol	<0.0019	mg/L	0.00040	0.0019	1.0
3 & 4 Methylphenol	<0.0019	mg/L	0.00018	0.0019	1.0
Naphthalene	<0.00093	mg/L	0.000093	0.00093	1.0
2-Nitroaniline	<0.0047	mg/L	0.00051	0.0047	1.0
3-Nitroaniline	<0.0093	mg/L	0.00093	0.0093	1.0
4-Nitroaniline	<0.0093	mg/L	0.0021	0.0093	1.0
Nitrobenzene	<0.00093	mg/L	0.00028	0.00093	1.0
2-Nitrophenol	<0.0093	mg/L	0.00060	0.0093	1.0
4-Nitrophenol	<0.019	mg/L	0.0022	0.019	1.0
N-Nitrosodi-n-propylamine	<0.00047	mg/L	0.00014	0.00047	1.0
N-Nitrosodiphenylamine	<0.00093	mg/L	0.00019	0.00093	1.0
2,2'-oxybis[1-chloropropane]	<0.0019	mg/L	0.00019	0.0019	1.0
Pentachlorophenol	<0.019	mg/L	0.0020	0.019	1.0
Phenanthrene	<0.00093	mg/L	0.000066	0.00093	1.0
Phenol	<0.0047	mg/L	0.0012	0.0047	1.0
Pyrene	<0.00093	mg/L	0.000066	0.00093	1.0
1,2,4-Trichlorobenzene	<0.0019	mg/L	0.00022	0.0019	1.0
2,4,5-Trichlorophenol	<0.0093	mg/L	0.0024	0.0093	1.0
2,4,6-Trichlorophenol	<0.0047	mg/L	0.00063	0.0047	1.0

Surrogate			Acceptance Limits
2-Fluorobiphenyl	74	%	37 - 120
2-Fluorophenol	41	%	20 - 110
Nitrobenzene-d5	69	%	42 - 120
Phenol-d5	26	%	20 - 110
Terphenyl-d14	84	%	39 - 120
2,4,6-Tribromophenol	76	%	41 - 122

Method: Total Recoverable-6020 Date Analyzed: 10/12/2009 1429
Prep Method: 3005A Date Prepared: 10/12/2009 0730

Aluminum	<0.10	mg/L	0.022	0.10	1.0

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Job Number: 500-21700-1

Client Sample ID: BG-RW02-100609-D
Lab Sample ID: 500-21700-3

Date Sampled: 10/06/2009 1755
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Arsenic	0.0014		mg/L	0.00015	0.0010	1.0
Barium	0.017		mg/L	0.00057	0.0025	1.0
Calcium	180		mg/L	0.071	0.20	1.0
Chromium	<0.0050		mg/L	0.00084	0.0050	1.0
Copper	0.0012	J B	mg/L	0.00046	0.0020	1.0
Iron	2.2		mg/L	0.024	0.10	1.0
Manganese	0.18		mg/L	0.00028	0.0025	1.0
Nickel	0.0029	B	mg/L	0.00024	0.0020	1.0
Potassium	1.5		mg/L	0.10	0.50	1.0
Selenium	<0.0025		mg/L	0.00043	0.0025	1.0
Silver	<0.00050		mg/L	0.000094	0.00050	1.0
Thallium	<0.0020		mg/L	0.00030	0.0020	1.0
Vanadium	<0.0050		mg/L	0.00061	0.0050	1.0
Zinc	0.62	B	mg/L	0.0066	0.020	1.0
Method: Total Recoverable-6020			Date Analyzed:	10/12/2009 2017		
Prep Method: 3005A			Date Prepared:	10/12/2009 0730		
Beryllium	<0.0010		mg/L	0.00027	0.0010	1.0
Method: Total Recoverable-6020			Date Analyzed:	10/14/2009 1410		
Prep Method: 3005A			Date Prepared:	10/12/2009 0730		
Antimony	<0.0020		mg/L	0.00016	0.0020	1.0
Cadmium	<0.00050		mg/L	0.00016	0.00050	1.0
Cobalt	0.00079	J	mg/L	0.000053	0.0010	1.0
Lead	0.0016	B	mg/L	0.000050	0.00050	1.0
Magnesium	88		mg/L	0.024	0.20	1.0
Sodium	6.8	B	mg/L	0.024	0.20	1.0
Method: 7470A			Date Analyzed:	10/13/2009 1402		
Prep Method: 7470A			Date Prepared:	10/13/2009 0915		
Mercury	<0.00020		mg/L	0.000078	0.00020	1.0
Method: 9040B			Date Analyzed:	10/09/2009 1517		
pH	7.09	HF	SU	0.200	0.200	1.0

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Job Number: 500-21700-1

Client Sample ID: BG-SW01-100709
Lab Sample ID: 500-21700-4

Date Sampled: 10/07/2009 1500
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/14/2009 0335		
Prep Method: 5030B		Date Prepared:	10/14/2009 0335		
Acetone	0.0071	mg/L	0.0021	0.0050	1.0
Benzene	<0.0010	mg/L	0.00015	0.0010	1.0
Bromodichloromethane	<0.0010	mg/L	0.00013	0.0010	1.0
Bromoform	<0.0010	mg/L	0.00030	0.0010	1.0
Bromomethane	<0.0010 UJ	mg/L	0.00045	0.0010	1.0
Carbon disulfide	<0.0050	mg/L	0.00066	0.0050	1.0
Carbon tetrachloride	<0.0010	mg/L	0.00032	0.0010	1.0
Chlorobenzene	<0.0010	mg/L	0.00017	0.0010	1.0
Chloroethane	<0.0010	mg/L	0.00036	0.0010	1.0
Chloroform	<0.0010	mg/L	0.00015	0.0010	1.0
Chloromethane	<0.0010	mg/L	0.00014	0.0010	1.0
cis-1,2-Dichloroethene	<0.0010	mg/L	0.00015	0.0010	1.0
cis-1,3-Dichloropropene	<0.0010	mg/L	0.00016	0.0010	1.0
Dibromochloromethane	<0.0010	mg/L	0.00017	0.0010	1.0
1,1-Dichloroethane	<0.0010	mg/L	0.00012	0.0010	1.0
1,2-Dichloroethane	<0.0010	mg/L	0.00014	0.0010	1.0
1,1-Dichloroethene	<0.0010	mg/L	0.00023	0.0010	1.0
1,2-Dichloropropane	<0.0010	mg/L	0.00019	0.0010	1.0
1,3-Dichloropropene, Total	<0.0010	mg/L	0.00021	0.0010	1.0
Ethylbenzene	<0.0010	mg/L	0.00022	0.0010	1.0
2-Hexanone	<0.0050	mg/L	0.00077	0.0050	1.0
Methylene Chloride	<0.0020	mg/L	0.00052	0.0020	1.0
Methyl Ethyl Ketone	<0.0050	mg/L	0.0028	0.0050	1.0
methyl isobutyl ketone	<0.0050	mg/L	0.00077	0.0050	1.0
Methyl tert-butyl ether	<0.0010	mg/L	0.00016	0.0010	1.0
Styrene	<0.0010	mg/L	0.00017	0.0010	1.0
1,1,2,2-Tetrachloroethane	<0.0010	mg/L	0.00027	0.0010	1.0
Tetrachloroethene	<0.0010	mg/L	0.00020	0.0010	1.0
Toluene	<0.0010	mg/L	0.00017	0.0010	1.0
trans-1,2-Dichloroethene	<0.0010	mg/L	0.00018	0.0010	1.0
trans-1,3-Dichloropropene	<0.0010	mg/L	0.00021	0.0010	1.0
1,1,1-Trichloroethane	<0.0010	mg/L	0.00014	0.0010	1.0
1,1,2-Trichloroethane	<0.0010	mg/L	0.00022	0.0010	1.0
Trichloroethene	<0.0010	mg/L	0.00016	0.0010	1.0
Vinyl chloride	<0.0010	mg/L	0.00015	0.0010	1.0
Xylenes, Total	<0.0020	mg/L	0.00042	0.0020	1.0
Surrogate				Acceptance Limits	
4-Bromofluorobenzene (Surr)	88	%		77 - 120	

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Job Number: 500-21700-1

Client Sample ID: BG-SW01-100709
Lab Sample ID: 500-21700-4

Date Sampled: 10/07/2009 1500
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Surrogate				Acceptance Limits	
Dibromofluoromethane	110	%		79 - 133	
1,2-Dichloroethane-d4 (Surr)	111	%		72 - 135	
Toluene-d8 (Surr)	95	%		80 - 120	
Method: 8270C		Date Analyzed:		10/13/2009 1724	
Prep Method: 3510C		Date Prepared:		10/12/2009 0803	
Acenaphthene	<0.00096	mg/L	0.000056	0.00096	1.0
Acenaphthylene	<0.00096	mg/L	0.000056	0.00096	1.0
Anthracene	<0.00096	mg/L	0.000065	0.00096	1.0
Benzo[a]anthracene	<0.00012	mg/L	0.000063	0.00012	1.0
Benzo[a]pyrene	<0.00019	mg/L	0.000042	0.00019	1.0
Benzo[b]fluoranthene	<0.00017	mg/L	0.000040	0.00017	1.0
Benzo[g,h,i]perylene	<0.00096	mg/L	0.00011	0.00096	1.0
Benzo[k]fluoranthene	<0.00016	mg/L	0.000076	0.00016	1.0
Bis(2-chloroethoxy)methane	<0.0019	mg/L	0.00013	0.0019	1.0
Bis(2-chloroethyl)ether	<0.0019	mg/L	0.00023	0.0019	1.0
Bis(2-ethylhexyl) phthalate	<0.0096	mg/L	0.0018	0.0096	1.0
4-Bromophenyl phenyl ether	<0.0048	mg/L	0.00015	0.0048	1.0
Butyl benzyl phthalate	<0.0019	mg/L	0.00019	0.0019	1.0
Carbazole	<0.0048	mg/L	0.00079	0.0048	1.0
4-Chloroaniline	<0.0096	mg/L	0.00075	0.0096	1.0
4-Chloro-3-methylphenol	<0.0096	mg/L	0.0023	0.0096	1.0
2-Chloronaphthalene	<0.0019	mg/L	0.00016	0.0019	1.0
2-Chlorophenol	<0.0048	mg/L	0.00020	0.0048	1.0
4-Chlorophenyl phenyl ether	<0.0048	mg/L	0.00023	0.0048	1.0
Chrysene	<0.00048	mg/L	0.000065	0.00048	1.0
Dibenz(a,h)anthracene	<0.00029	mg/L	0.000055	0.00029	1.0
Dibenzofuran	<0.0019	mg/L	0.00023	0.0019	1.0
1,2-Dichlorobenzene	<0.0019	mg/L	0.00019	0.0019	1.0
1,3-Dichlorobenzene	<0.0019	mg/L	0.00020	0.0019	1.0
1,4-Dichlorobenzene	<0.0019	mg/L	0.00019	0.0019	1.0
3,3'-Dichlorobenzidine	<0.0048	mg/L	0.00024	0.0048	1.0
2,4-Dichlorophenol	<0.0096	mg/L	0.0031	0.0096	1.0
Diethyl phthalate	<0.0019	mg/L	0.00019	0.0019	1.0
2,4-Dimethylphenol	<0.0096	mg/L	0.0011	0.0096	1.0
Dimethyl phthalate	<0.0019	mg/L	0.00012	0.0019	1.0
Di-n-butyl phthalate	<0.0048	mg/L	0.00062	0.0048	1.0
4,6-Dinitro-2-methylphenol	<0.019	mg/L	0.0017	0.019	1.0
2,4-Dinitrophenol	<0.019	mg/L	0.0030	0.019	1.0
2,4-Dinitrotoluene	<0.00096	mg/L	0.00043	0.00096	1.0

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Job Number: 500-21700-1

Client Sample ID: BG-SW01-100709
Lab Sample ID: 500-21700-4

Date Sampled: 10/07/2009 1500
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
2,6-Dinitrotoluene	<0.00048	mg/L	0.00012	0.00048	1.0
Di-n-octyl phthalate	<0.0096	mg/L	0.0016	0.0096	1.0
Fluoranthene	<0.00096	mg/L	0.000065	0.00096	1.0
Fluorene	<0.00096	mg/L	0.000055	0.00096	1.0
Hexachlorobenzene	<0.00048	mg/L	0.000063	0.00048	1.0
Hexachlorobutadiene	<0.0048	mg/L	0.00024	0.0048	1.0
Hexachlorocyclopentadiene	<0.019	mg/L	0.0042	0.019	1.0
Hexachloroethane	<0.0048	mg/L	0.00024	0.0048	1.0
Indeno[1,2,3-cd]pyrene	<0.00019	mg/L	0.000069	0.00019	1.0
Isophorone	<0.0019	mg/L	0.00056	0.0019	1.0
2-Methylnaphthalene	<0.00048	mg/L	0.00015	0.00048	1.0
2-Methylphenol	<0.0019	mg/L	0.00041	0.0019	1.0
3 & 4 Methylphenol	<0.0019	mg/L	0.00018	0.0019	1.0
Naphthalene	<0.00096	mg/L	0.000096	0.00096	1.0
2-Nitroaniline	<0.0048	mg/L	0.00053	0.0048	1.0
3-Nitroaniline	<0.0096	mg/L	0.00096	0.0096	1.0
4-Nitroaniline	<0.0096	mg/L	0.0022	0.0096	1.0
Nitrobenzene	<0.00096	mg/L	0.00029	0.00096	1.0
2-Nitrophenol	<0.0096	mg/L	0.00062	0.0096	1.0
4-Nitrophenol	<0.019	mg/L	0.0023	0.019	1.0
N-Nitrosodi-n-propylamine	<0.00048	mg/L	0.00014	0.00048	1.0
N-Nitrosodiphenylamine	<0.00096	mg/L	0.00019	0.00096	1.0
2,2'-oxybis[1-chloropropane]	<0.0019	mg/L	0.00019	0.0019	1.0
Pentachlorophenol	<0.019	mg/L	0.0020	0.019	1.0
Phenanthrene	<0.00096	mg/L	0.000068	0.00096	1.0
Phenol	<0.0048	mg/L	0.0012	0.0048	1.0
Pyrene	<0.00096	mg/L	0.000068	0.00096	1.0
1,2,4-Trichlorobenzene	<0.0019	mg/L	0.00023	0.0019	1.0
2,4,5-Trichlorophenol	<0.0096	mg/L	0.0025	0.0096	1.0
2,4,6-Trichlorophenol	<0.0048	mg/L	0.00064	0.0048	1.0

Surrogate			Acceptance Limits
2-Fluorobiphenyl	65	%	37 - 120
2-Fluorophenol	37	%	20 - 110
Nitrobenzene-d5	58	%	42 - 120
Phenol-d5	25	%	20 - 110
Terphenyl-d14	67	%	39 - 120
2,4,6-Tribromophenol	73	%	41 - 122

Method: Total Recoverable-6020 Date Analyzed: 10/12/2009 1434
Prep Method: 3005A Date Prepared: 10/12/2009 0730

Aluminum	27	mg/L	0.022	0.10	1.0

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Job Number: 500-21700-1

Client Sample ID: BG-SW01-100709
Lab Sample ID: 500-21700-4

Date Sampled: 10/07/2009 1500
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Barium	0.18		mg/L	0.00057	0.0025	1.0
Potassium	23		mg/L	0.10	0.50	1.0
Silver	0.0073		mg/L	0.000094	0.00050	1.0
Thallium	0.0039		mg/L	0.00030	0.0020	1.0
Method: Total Recoverable-6020			Date Analyzed:	10/12/2009 2021		
Prep Method: 3005A			Date Prepared:	10/12/2009 0730		
Beryllium	0.0041		mg/L	0.00027	0.0010	1.0
Method: Total Recoverable-6020			Date Analyzed:	10/14/2009 1415		
Prep Method: 3005A			Date Prepared:	10/12/2009 0730		
Antimony	0.0045	J	mg/L	0.00080	0.010	5.0
Cadmium	0.39	B	mg/L	0.00080	0.0025	5.0
Magnesium	250		mg/L	0.12	1.0	5.0
Sodium	0.96	J B	mg/L	0.12	1.0	5.0
Method: Total Recoverable-6020			Date Analyzed:	10/14/2009 1420		
Prep Method: 3005A			Date Prepared:	10/12/2009 0730		
Arsenic	0.22		mg/L	0.0030	0.020	20
Calcium	1300		mg/L	1.4	4.0	20
Chromium	0.047	J	mg/L	0.017	0.10	20
Cobalt	0.19		mg/L	0.0011	0.020	20
Copper	0.40	B	mg/L	0.0092	0.040	20
Iron	230		mg/L	0.48	2.0	20
Lead	63	B	mg/L	0.0010	0.010	20
Magnesium	260		mg/L	0.49	4.0	20
Manganese	7.1		mg/L	0.0056	0.050	20
Nickel	0.37	B	mg/L	0.0048	0.040	20
Selenium	<0.050		mg/L	0.0086	0.050	20
Vanadium	0.029	J	mg/L	0.012	0.10	20
Method: Total Recoverable-6020			Date Analyzed:	10/20/2009 1718		
Prep Method: 3005A			Date Prepared:	10/12/2009 0730		
Zinc	130	B	mg/L	0.66	2.0	100
Method: 7470A			Date Analyzed:	10/13/2009 1404		
Prep Method: 7470A			Date Prepared:	10/13/2009 0915		
Mercury	0.00039		mg/L	0.000078	0.00020	1.0
Method: 9040B			Date Analyzed:	10/09/2009 1526		
pH	7.27	HF	SU	0.200	0.200	1.0

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Job Number: 500-21700-1

Client Sample ID: BG-SW02-100709
Lab Sample ID: 500-21700-5

Date Sampled: 10/07/2009 1545
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/14/2009 0357		
Prep Method: 5030B		Date Prepared:	10/14/2009 0357		
Acetone	<0.0050	mg/L	0.0021	0.0050	1.0
Benzene	<0.0010	mg/L	0.00015	0.0010	1.0
Bromodichloromethane	<0.0010	mg/L	0.00013	0.0010	1.0
Bromoform	<0.0010	mg/L	0.00030	0.0010	1.0
Bromomethane	<0.0010 UJ	mg/L	0.00045	0.0010	1.0
Carbon disulfide	<0.0050	mg/L	0.00066	0.0050	1.0
Carbon tetrachloride	<0.0010	mg/L	0.00032	0.0010	1.0
Chlorobenzene	<0.0010	mg/L	0.00017	0.0010	1.0
Chloroethane	<0.0010	mg/L	0.00036	0.0010	1.0
Chloroform	<0.0010	mg/L	0.00015	0.0010	1.0
Chloromethane	<0.0010	mg/L	0.00014	0.0010	1.0
cis-1,2-Dichloroethene	<0.0010	mg/L	0.00015	0.0010	1.0
cis-1,3-Dichloropropene	<0.0010	mg/L	0.00016	0.0010	1.0
Dibromochloromethane	<0.0010	mg/L	0.00017	0.0010	1.0
1,1-Dichloroethane	<0.0010	mg/L	0.00012	0.0010	1.0
1,2-Dichloroethane	<0.0010	mg/L	0.00014	0.0010	1.0
1,1-Dichloroethene	<0.0010	mg/L	0.00023	0.0010	1.0
1,2-Dichloropropane	<0.0010	mg/L	0.00019	0.0010	1.0
1,3-Dichloropropene, Total	<0.0010	mg/L	0.00021	0.0010	1.0
Ethylbenzene	<0.0010	mg/L	0.00022	0.0010	1.0
2-Hexanone	<0.0050	mg/L	0.00077	0.0050	1.0
Methylene Chloride	<0.0020	mg/L	0.00052	0.0020	1.0
Methyl Ethyl Ketone	<0.0050	mg/L	0.0028	0.0050	1.0
methyl isobutyl ketone	<0.0050	mg/L	0.00077	0.0050	1.0
Methyl tert-butyl ether	<0.0010	mg/L	0.00016	0.0010	1.0
Styrene	<0.0010	mg/L	0.00017	0.0010	1.0
1,1,2,2-Tetrachloroethane	<0.0010	mg/L	0.00027	0.0010	1.0
Tetrachloroethene	<0.0010	mg/L	0.00020	0.0010	1.0
Toluene	<0.0010	mg/L	0.00017	0.0010	1.0
trans-1,2-Dichloroethene	<0.0010	mg/L	0.00018	0.0010	1.0
trans-1,3-Dichloropropene	<0.0010	mg/L	0.00021	0.0010	1.0
1,1,1-Trichloroethane	<0.0010	mg/L	0.00014	0.0010	1.0
1,1,2-Trichloroethane	<0.0010	mg/L	0.00022	0.0010	1.0
Trichloroethene	<0.0010	mg/L	0.00016	0.0010	1.0
Vinyl chloride	<0.0010	mg/L	0.00015	0.0010	1.0
Xylenes, Total	<0.0020	mg/L	0.00042	0.0020	1.0
Surrogate				Acceptance Limits	
4-Bromofluorobenzene (Surr)	88	%		77 - 120	

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Job Number: 500-21700-1

Client Sample ID: BG-SW02-100709
Lab Sample ID: 500-21700-5

Date Sampled: 10/07/2009 1545
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Surrogate				Acceptance Limits	
Dibromofluoromethane	110	%		79 - 133	
1,2-Dichloroethane-d4 (Surr)	113	%		72 - 135	
Toluene-d8 (Surr)	95	%		80 - 120	
Method: 8270C		Date Analyzed:	10/13/2009 1747		
Prep Method: 3510C		Date Prepared:	10/12/2009 0803		
Acenaphthene	<0.0010	mg/L	0.000060	0.0010	1.0
Acenaphthylene	<0.0010	mg/L	0.000060	0.0010	1.0
Anthracene	<0.0010	mg/L	0.000070	0.0010	1.0
Benzo[a]anthracene	<0.00013	mg/L	0.000068	0.00013	1.0
Benzo[a]pyrene	<0.00021	mg/L	0.000045	0.00021	1.0
Benzo[b]fluoranthene	<0.00019	mg/L	0.000043	0.00019	1.0
Benzo[g,h,i]perylene	<0.0010	mg/L	0.00011	0.0010	1.0
Benzo[k]fluoranthene	<0.00018	mg/L	0.000081	0.00018	1.0
Bis(2-chloroethoxy)methane	<0.0021	mg/L	0.00014	0.0021	1.0
Bis(2-chloroethyl)ether	<0.0021	mg/L	0.00025	0.0021	1.0
Bis(2-ethylhexyl) phthalate	<0.010	mg/L	0.0020	0.010	1.0
4-Bromophenyl phenyl ether	<0.0052	mg/L	0.00016	0.0052	1.0
Butyl benzyl phthalate	<0.0021	mg/L	0.00021	0.0021	1.0
Carbazole	<0.0052	mg/L	0.00085	0.0052	1.0
4-Chloroaniline	<0.010	mg/L	0.00080	0.010	1.0
4-Chloro-3-methylphenol	<0.010	mg/L	0.0025	0.010	1.0
2-Chloronaphthalene	<0.0021	mg/L	0.00018	0.0021	1.0
2-Chlorophenol	<0.0052	mg/L	0.00022	0.0052	1.0
4-Chlorophenyl phenyl ether	<0.0052	mg/L	0.00025	0.0052	1.0
Chrysene	<0.00052	mg/L	0.000070	0.00052	1.0
Dibenz(a,h)anthracene	<0.00031	mg/L	0.000059	0.00031	1.0
Dibenzofuran	<0.0021	mg/L	0.00025	0.0021	1.0
1,2-Dichlorobenzene	<0.0021	mg/L	0.00021	0.0021	1.0
1,3-Dichlorobenzene	<0.0021	mg/L	0.00022	0.0021	1.0
1,4-Dichlorobenzene	<0.0021	mg/L	0.00021	0.0021	1.0
3,3'-Dichlorobenzidine	<0.0052	mg/L	0.00026	0.0052	1.0
2,4-Dichlorophenol	<0.010	mg/L	0.0033	0.010	1.0
Diethyl phthalate	<0.0021	mg/L	0.00021	0.0021	1.0
2,4-Dimethylphenol	<0.010	mg/L	0.0011	0.010	1.0
Dimethyl phthalate	<0.0021	mg/L	0.00013	0.0021	1.0
Di-n-butyl phthalate	<0.0052	mg/L	0.00066	0.0052	1.0
4,6-Dinitro-2-methylphenol	<0.021	mg/L	0.0019	0.021	1.0
2,4-Dinitrophenol	<0.021	mg/L	0.0032	0.021	1.0
2,4-Dinitrotoluene	<0.0010	mg/L	0.00046	0.0010	1.0

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Job Number: 500-21700-1

Client Sample ID: BG-SW02-100709
Lab Sample ID: 500-21700-5

Date Sampled: 10/07/2009 1545
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
2,6-Dinitrotoluene	<0.00052	mg/L	0.00012	0.00052	1.0
Di-n-octyl phthalate	<0.010	mg/L	0.0018	0.010	1.0
Fluoranthene	<0.0010	mg/L	0.000070	0.0010	1.0
Fluorene	<0.0010	mg/L	0.000059	0.0010	1.0
Hexachlorobenzene	<0.00052	mg/L	0.000068	0.00052	1.0
Hexachlorobutadiene	<0.0052	mg/L	0.00026	0.0052	1.0
Hexachlorocyclopentadiene	<0.021	mg/L	0.0045	0.021	1.0
Hexachloroethane	<0.0052	mg/L	0.00026	0.0052	1.0
Indeno[1,2,3-cd]pyrene	<0.00021	mg/L	0.000074	0.00021	1.0
Isophorone	<0.0021	mg/L	0.00060	0.0021	1.0
2-Methylnaphthalene	<0.00052	mg/L	0.00016	0.00052	1.0
2-Methylphenol	<0.0021	mg/L	0.00044	0.0021	1.0
3 & 4 Methylphenol	<0.0021	mg/L	0.00020	0.0021	1.0
Naphthalene	<0.0010	mg/L	0.00010	0.0010	1.0
2-Nitroaniline	<0.0052	mg/L	0.00057	0.0052	1.0
3-Nitroaniline	<0.010	mg/L	0.0010	0.010	1.0
4-Nitroaniline	<0.010	mg/L	0.0024	0.010	1.0
Nitrobenzene	<0.0010	mg/L	0.00031	0.0010	1.0
2-Nitrophenol	<0.010	mg/L	0.00066	0.010	1.0
4-Nitrophenol	<0.021	mg/L	0.0025	0.021	1.0
N-Nitrosodi-n-propylamine	<0.00052	mg/L	0.00015	0.00052	1.0
N-Nitrosodiphenylamine	<0.0010	mg/L	0.00021	0.0010	1.0
2,2'-oxybis[1-chloropropane]	<0.0021	mg/L	0.00021	0.0021	1.0
Pentachlorophenol	<0.021	mg/L	0.0022	0.021	1.0
Phenanthrene	<0.0010	mg/L	0.000073	0.0010	1.0
Phenol	<0.0052	mg/L	0.0013	0.0052	1.0
Pyrene	<0.0010	mg/L	0.000073	0.0010	1.0
1,2,4-Trichlorobenzene	<0.0021	mg/L	0.00025	0.0021	1.0
2,4,5-Trichlorophenol	<0.010	mg/L	0.0027	0.010	1.0
2,4,6-Trichlorophenol	<0.0052	mg/L	0.00069	0.0052	1.0

Surrogate			Acceptance Limits
2-Fluorobiphenyl	55	%	37 - 120
2-Fluorophenol	32	%	20 - 110
Nitrobenzene-d5	50	%	42 - 120
Phenol-d5	22	%	20 - 110
Terphenyl-d14	65	%	39 - 120
2,4,6-Tribromophenol	62	%	41 - 122

Method: Total Recoverable-6020 Date Analyzed: 10/12/2009 1439
Prep Method: 3005A Date Prepared: 10/12/2009 0730

Aluminum	0.025	J	mg/L	0.022	0.10	1.0

Lisa Graczyk
Weston Solutions, Inc.
20 N Wacker Dr
Chicago, IL 60602-4206

Job Number: 500-21700-1

Client Sample ID: BG-SW02-100709
Lab Sample ID: 500-21700-5

Date Sampled: 10/07/2009 1545
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Arsenic	0.00029	J	mg/L	0.00015	0.0010	1.0
Barium	0.022		mg/L	0.00057	0.0025	1.0
Chromium	<0.0050		mg/L	0.00084	0.0050	1.0
Copper	0.0037	B	mg/L	0.00046	0.0020	1.0
Iron	0.25		mg/L	0.024	0.10	1.0
Manganese	0.087		mg/L	0.00028	0.0025	1.0
Nickel	0.016	B	mg/L	0.00024	0.0020	1.0
Potassium	3.9		mg/L	0.10	0.50	1.0
Selenium	<0.0025		mg/L	0.00043	0.0025	1.0
Silver	<0.00050		mg/L	0.000094	0.00050	1.0
Thallium	<0.0020		mg/L	0.00030	0.0020	1.0
Vanadium	<0.0050		mg/L	0.00061	0.0050	1.0
Zinc	3.2	B	mg/L	0.0066	0.020	1.0
Method: Total Recoverable-6020			Date Analyzed:	10/12/2009 2025		
Prep Method: 3005A			Date Prepared:	10/12/2009 0730		
Beryllium	<0.0010		mg/L	0.00027	0.0010	1.0
Method: Total Recoverable-6020			Date Analyzed:	10/14/2009 1425		
Prep Method: 3005A			Date Prepared:	10/12/2009 0730		
Antimony	<0.0020		mg/L	0.00016	0.0020	1.0
Cobalt	0.0011		mg/L	0.000053	0.0010	1.0
Lead	0.020	B	mg/L	0.000050	0.00050	1.0
Magnesium	64		mg/L	0.024	0.20	1.0
Sodium	7.4	B	mg/L	0.024	0.20	1.0
Method: Total Recoverable-6020			Date Analyzed:	10/19/2009 1946		
Prep Method: 3005A			Date Prepared:	10/19/2009 0800		
Cadmium	0.0012 J+		mg/L	0.00016	0.00050	1.0
Method: Total Recoverable-6020			Date Analyzed:	10/20/2009 1722		
Prep Method: 3005A			Date Prepared:	10/12/2009 0730		
Calcium	400		mg/L	0.71	2.0	10
Method: 7470A			Date Analyzed:	10/13/2009 1406		
Prep Method: 7470A			Date Prepared:	10/13/2009 0915		
Mercury	<0.00020		mg/L	0.000078	0.00020	1.0
Method: 9040B			Date Analyzed:	10/09/2009 1535		
pH	7.60	HF	SU	0.200	0.200	1.0

Lisa Graczyk
Weston Solutions, Inc.
20 N Wacker Dr
Chicago, IL 60602-4206

Job Number: 500-21700-1

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-21700-6

Date Sampled: 10/06/2009 0000
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/14/2009 0418		
Prep Method: 5030B		Date Prepared:	10/14/2009 0418		
Acetone	<0.0050	mg/L	0.0021	0.0050	1.0
Benzene	<0.0010	mg/L	0.00015	0.0010	1.0
Bromodichloromethane	<0.0010	mg/L	0.00013	0.0010	1.0
Bromoform	<0.0010	mg/L	0.00030	0.0010	1.0
Bromomethane	<0.0010 UJ	mg/L	0.00045	0.0010	1.0
Carbon disulfide	<0.0050	mg/L	0.00066	0.0050	1.0
Carbon tetrachloride	<0.0010	mg/L	0.00032	0.0010	1.0
Chlorobenzene	<0.0010	mg/L	0.00017	0.0010	1.0
Chloroethane	<0.0010	mg/L	0.00036	0.0010	1.0
Chloroform	<0.0010	mg/L	0.00015	0.0010	1.0
Chloromethane	<0.0010	mg/L	0.00014	0.0010	1.0
cis-1,2-Dichloroethene	<0.0010	mg/L	0.00015	0.0010	1.0
cis-1,3-Dichloropropene	<0.0010	mg/L	0.00016	0.0010	1.0
Dibromochloromethane	<0.0010	mg/L	0.00017	0.0010	1.0
1,1-Dichloroethane	<0.0010	mg/L	0.00012	0.0010	1.0
1,2-Dichloroethane	<0.0010	mg/L	0.00014	0.0010	1.0
1,1-Dichloroethene	<0.0010	mg/L	0.00023	0.0010	1.0
1,2-Dichloropropane	<0.0010	mg/L	0.00019	0.0010	1.0
1,3-Dichloropropene, Total	<0.0010	mg/L	0.00021	0.0010	1.0
Ethylbenzene	<0.0010	mg/L	0.00022	0.0010	1.0
2-Hexanone	<0.0050	mg/L	0.00077	0.0050	1.0
Methylene Chloride	<0.0020	mg/L	0.00052	0.0020	1.0
Methyl Ethyl Ketone	<0.0050	mg/L	0.0028	0.0050	1.0
methyl isobutyl ketone	<0.0050	mg/L	0.00077	0.0050	1.0
Methyl tert-butyl ether	<0.0010	mg/L	0.00016	0.0010	1.0
Styrene	<0.0010	mg/L	0.00017	0.0010	1.0
1,1,2,2-Tetrachloroethane	<0.0010	mg/L	0.00027	0.0010	1.0
Tetrachloroethene	<0.0010	mg/L	0.00020	0.0010	1.0
Toluene	<0.0010	mg/L	0.00017	0.0010	1.0
trans-1,2-Dichloroethene	<0.0010	mg/L	0.00018	0.0010	1.0
trans-1,3-Dichloropropene	<0.0010	mg/L	0.00021	0.0010	1.0
1,1,1-Trichloroethane	<0.0010	mg/L	0.00014	0.0010	1.0
1,1,2-Trichloroethane	<0.0010	mg/L	0.00022	0.0010	1.0
Trichloroethene	<0.0010	mg/L	0.00016	0.0010	1.0
Vinyl chloride	<0.0010	mg/L	0.00015	0.0010	1.0
Xylenes, Total	<0.0020	mg/L	0.00042	0.0020	1.0
Surrogate			Acceptance Limits		
4-Bromofluorobenzene (Surr)	89	%	77 - 120		

Lisa Graczyk
Weston Solutions, Inc.
20 N Wacker Dr
Chicago, IL 60602-4206

Job Number: 500-21700-1

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-21700-6

Date Sampled: 10/06/2009 0000
Date Received: 10/09/2009 1445
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Surrogate				Acceptance Limits	
Dibromofluoromethane	111	%		79 - 133	
1,2-Dichloroethane-d4 (Surr)	111	%		72 - 135	
Toluene-d8 (Surr)	95	%		80 - 120	

DATA REPORTING QUALIFIERS

Client: Weston Solutions, Inc. Job Number: 500-21700-1

Lab Section	Qualifier	Description
Metals		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	HF	Field parameter with a holding time of 15 minutes

BAUTSCH GRAY MINE SITE
GALENA, ILLINOIS
DATA VALIDATION REPORT

Date: August 9, 2010
Laboratory: STAT Analysis Corporation, Chicago, Illinois
Laboratory Project #: 10080080
Data Validation Performed By: Lisa Graczyk, Weston Solutions, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START)
Weston Analytical TDD/Work Order #: S05-0001-0909-012/20405.016.001.0768.00

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for two water samples (includes one field duplicate sample) collected for the Bautsch Gray Mine Site that were analyzed for the following parameters and methods:

- Total Metals (Arsenic, Cadmium, and Lead) by United States Environmental Protection Agency (U.S. EPA) SW-846 Method 6020

A level II data package was requested from STAT. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" dated January 2010. The Attachment contains the results summary sheets.

Data Validation Report
Bautsch Gray Mine Site
STAT Analysis Corporation
Laboratory Project #: 10080080

TOTAL METALS (ARSENIC, CADMIUM, AND LEAD) BY SW-846 METHOD 6020

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
BG-RW01-080310	10080080-001	Water	8/3/2010	8/6/2010
BG-RW01-080310D	10080080-002	Water	8/3/2010	8/6/2010

2. Holding Times

The samples were analyzed within the required holding time limit of 180 days from sample collection to analysis.

3. Blank Results

A method blank was analyzed with the samples and was free of target analytes above the reporting limit. Cadmium and lead were detected below the reporting limit in the method blank and no qualification is required.

4. Laboratory Control Sample (LCS) Results

The LCS recoveries were within the laboratory-established quality control (QC) limits for target analytes.

5. Field Duplicate Results

The relative percent difference (RPD) between the field duplicate and investigative sample was calculated for the only detected metal which was lead. There is no RPD QC limit set for field duplicates; however, a standard RPD limit of 50 was used for comparison purposes. The RPD was 4 percent which is acceptable and indicates good correlation.

6. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

The laboratory analyzed an MS and MSD using a sample from another site so matrix interferences could not be evaluated. However, the percent recoveries and RPDs were within QC limits indicating good laboratory precision and accuracy.

7. Overall Assessment

The metals data are acceptable for use based on the information received.

Data Validation Report
Bautsch Gray Mine Site
STAT Analysis Corporation
Laboratory Project #: 10080080

ATTACHMENT

STAT ANALYSIS CORPORATION
RESULTS SUMMARY

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: August 06, 2010
Date Printed: August 06, 2010

Client: Weston Solutions
Project: Bautsch-Gray Sampling Event, Galena, IL **Lab Order:** 10080080

Lab ID: 10080080-001 **Collection Date** 8/3/2010 10:30:00 AM
Client Sample ID: BG-RW01-080310 **Matrix:** Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3005A)**			Prep Date: **8/6/2010**		Analyst: **JG**
Arsenic	ND	0.004		mg/L	2	8/6/2010
Cadmium	ND	0.002		mg/L	2	8/6/2010
Lead	0.0024	0.002		mg/L	2	8/6/2010

Lab ID: 10080080-002 **Collection Date** 8/3/2010 10:30:00 AM
Client Sample ID: BG-RW01-080310D **Matrix:** Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3005A)**			Prep Date: **8/6/2010**		Analyst: **JG**
Arsenic	ND	0.004		mg/L	2	8/6/2010
Cadmium	ND	0.002		mg/L	2	8/6/2010
Lead	0.0025	0.002		mg/L	2	8/6/2010

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

BAUTSCH GRAY MINE SITE
GALENA, ILLINOIS
DATA VALIDATION REPORT

Date: November 18, 2010
Laboratory: Microbac Laboratories, Inc. (Microbac), Merrillville, Indiana
Laboratory Project #: 10J0989
Data Validation Performed By: Lisa Graczyk, Weston Solutions, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START)
Weston Work Order #/TDD #: 20405.012.001.0874.00/S05-0001-0911-035

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for four water samples collected for the Bautsch Gray Mine Site that were analyzed for the following parameters and methods:

- Lead and Arsenic by United States Environmental Protection Agency (U.S. EPA) SW-846 Method 6010B

A level II data package was requested from Microbac. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" dated January 2010. The Attachment contains the results summary sheets.

Data Validation Report
Bautsch Gray Mine Site
Microbac Laboratories, Inc.
Laboratory Project #: 10J0989

TOTAL METALS (ARSENIC, CADMIUM, AND LEAD) BY SW-846 METHOD 6020

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
BG-746-102810	10J0989-01	Water	10/28/2010	11/1/2010
BG-842-102810	10J0989-02	Water	10/28/2010	11/1/2010
BG-842-102810D	10J0989-03	Water	10/28/2010	11/1/2010
BG-861-102810D	10J0989-04	Water	10/28/2010	11/1/2010

2. Holding Times

The samples were analyzed within the required holding time limit of 180 days from sample collection to analysis.

3. Blank Results

A method blank was analyzed with the samples and was free of target analytes above the reporting limit.

4. Laboratory Control Sample (LCS) Results

The LCS recoveries were within the laboratory-established quality control (QC) limits for target analytes.

5. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

The laboratory analyzed an MS and MSD using a sample from another site so matrix interferences could not be evaluated. However, the percent recoveries and relative percent differences were within QC limits indicating good laboratory precision and accuracy.

6. Overall Assessment

The metals data are acceptable for use based on the information received.

Data Validation Report
Bautsch Gray Mine Site
Microbac Laboratories, Inc.
Laboratory Project #: 10J0989

ATTACHMENT

MICROBAC LABORATORIES, INC.
RESULTS SUMMARY

November 4, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10J0989

Re: Bautsch - Gray Mine Site

Dear Vernon Giles:

Microbac Laboratories, Inc. - Chicagoland Division received 4 sample(s) on 10/29/2010 10:10:00AM for the analyses presented in the following report as Work Order 10J0989.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

Deborah Griffiths
Senior Project Manager

WORK ORDER SAMPLE SUMMARY

Date: *Thursday, November 4, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Project: Bautsch - Gray Mine Site
Lab Order: 10J0989

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10J0989-01	BG-746-102810		10/28/2010 10:00	10/29/2010 10:10:00AM
10J0989-02	BG-842-102810		10/28/2010 10:50	10/29/2010 10:10:00AM
10J0989-03	BG-842-102810D		10/28/2010 10:50	10/29/2010 10:10:00AM
10J0989-04	BG-861-102810D		10/28/2010 16:25	10/29/2010 10:10:00AM

Analytical Results

Date: *Thursday, November 4, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-746-102810
Work Order/ID: 10J0989-01
Sample Description:
Sampled: 10/28/2010 10:00
Matrix: Aqueous
Received: 10/29/2010 10:10

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 6010B**					Analyst: **SA**
Total Metals by ICP		Prep Method: **SW846 3010A**					Prep Date/Time: **11/01/2010 08:04**
Arsenic	A	***ND***	0.010		mg/L	1	11/01/2010 16:45
Lead	A	***ND***	0.0075		mg/L	1	11/01/2010 16:45

Analytical Results

Date: *Thursday, November 4, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-842-102810
Work Order/ID: 10J0989-02
Sample Description:
Sampled: 10/28/2010 10:50
Matrix: Aqueous
Received: 10/29/2010 10:10

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 6010B**					Analyst: **SA**
Total Metals by ICP		Prep Method: **SW846 3010A**					Prep Date/Time: **11/01/2010 08:04**
Arsenic	A	***ND***	0.010		mg/L	1	11/01/2010 16:50
Lead	A	***ND***	0.0075		mg/L	1	11/01/2010 16:50

Analytical Results

Date: *Thursday, November 4, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-842-102810D
Work Order/ID: 10J0989-03
Sample Description:
Sampled: 10/28/2010 10:50
Matrix: Aqueous
Received: 10/29/2010 10:10

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 6010B**					Analyst: **SA**
Total Metals by ICP		Prep Method: **SW846 3010A**					Prep Date/Time: **11/01/2010 08:04**
Arsenic	A	***ND***	0.010		mg/L	1	11/01/2010 16:56
Lead	A	***ND***	0.0075		mg/L	1	11/01/2010 16:56

Analytical Results

Date: *Thursday, November 4, 2010*

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-861-102810D
Sample Description:
Matrix: Aqueous

Work Order/ID: 10J0989-04
Sampled: 10/28/2010 16:25
Received: 10/29/2010 10:10

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 6010B**					Analyst: **SA**
Total Metals by ICP		Prep Method: **SW846 3010A**					Prep Date/Time: **11/01/2010 08:04**
Arsenic	A	***ND***	0.010		mg/L	1	11/01/2010 17:02
Lead	A	***ND***	0.0075		mg/L	1	11/01/2010 17:02

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor
RL	=	Reporting Limit
MDL	=	Method Detection Limit

ANALYTE TYPES: (AT)

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)
Indiana DEM approved support laboratory for solid waste and wastewater analyses
Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)
Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)
Kentucky DEP for the chemical analysis of drinking water (lab #90147)
Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)
*New York SDH for the chemical analysis of air and emissions (lab #11909)
North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)
Tennessee DEC for the chemical analysis of drinking water (lab #04017)
Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

COOLER INSPECTION

Date: Thursday, November 4, 2010

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date/Time Received: 10/29/2010 10:10

Work Order Number: 10J0989

Received by: Ken Smith

Checklist completed by: 10/29/2010 10:48:00AM | Ken Smith

Reviewed by: 11/2/2010 | DDG

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 5.50°C

After-Hour Arrival?	Yes	☐	No	☑		
Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present	☐
Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	Not Present	☑
Custody seals intact on sample containers?	Yes	☐	No	☐	Not Present	☑
COC present?	Yes	☑	No	☐		
COC included sufficient client identification?	Yes	☑	No	☐		
COC included sufficient sample collector information?	Yes	☑	No	☐		
COC included a sample description?	Yes	☑	No	☐		
COC agrees with sample labels?	Yes	☑	No	☐		
COC identified the appropriate matrix?	Yes	☑	No	☐		
COC included date of collection?	Yes	☑	No	☐		
COC included time of collection?	Yes	☑	No	☐		
COC identified the appropriate number of containers?	Yes	☑	No	☐		
Samples in proper container/bottle?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
If the samples are preserved, are the preservatives identified?	Yes	☑	No	☐		
COC included the requested analyses?	Yes	☑	No	☐		

If No, adjusted by? _____

COC signed when relinquished and received?	Yes	☑	No	☐		
Samples received on ice?	Yes	☑	No	☐		
Samples properly preserved?	Yes	☑	No	☐		
Voa vials for aqueous samples have zero headspace?	Yes	☐	No	☐	No VOA vials submitted	☑

Cooler Comments:

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10J0989-01	BG-746-102810	
10J0989-02	BG-842-102810	
10J0989-03	BG-842-102810D	
10J0989-04	BG-861-102810D	

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Work Order: 10J0989
Project: Bautsch - Gray Mine Site

Metals - Quality Control

Batch: B007840 **Prep:** SW846 3010A

Total Metals by ICP

Sample ID: Blank (B007840-BLK1) **Method:** SW-846 6010B **Prepped:** 11/01/2010 08:04
Source: **Analyzed:** 11/01/2010 14:57

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	ND	0.010	mg/L							
Lead	ND	0.0075	mg/L							

Sample ID: LCS (B007840-BS1) **Method:** SW-846 6010B **Prepped:** 11/01/2010 08:04
Source: **Analyzed:** 11/01/2010 15:02

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	1.91	0.010	mg/L	2.000		95.4	80-120		20	
Lead	1.93	0.0075	mg/L	2.000		96.5	80-120		20	

Sample ID: Matrix Spike (B007840-MS1) **Method:** SW-846 6010B **Prepped:** 11/01/2010 08:04
Source: 10J0979-07 **Analyzed:** 11/01/2010 15:34

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	1.95	0.010	mg/L	2.000	ND	97.3	75-125		20	
Lead	1.96	0.0075	mg/L	2.000	ND	97.8	75-125		20	

Sample ID: Matrix Spike Dup (B007840-MSD1) **Method:** SW-846 6010B **Prepped:** 11/01/2010 08:04
Source: 10J0979-07 **Analyzed:** 11/01/2010 15:39

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	1.96	0.010	mg/L	2.000	ND	98.0	75-125	0.768	20	
Lead	1.97	0.0075	mg/L	2.000	ND	98.4	75-125	0.663	20	

Microbac®

Samples Submitted to:
[ ] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664
[ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

Chain of Custody Record

Number 98509

Instructions on back

10J0989 Deborah Griffiths LATA-Kemron Remediation LLC - Albuquerque, NM 10/29/2010 Bautsch - Gray Mine Site

Client Name LATA - KEMRON	**Project** BAUTSCH - GRAY MINE RV	**Turnaround Time**	**Report Type**
Address 2424 LOUISIANA BLVD NE SUITE 400	**Location** GALENA, IL	[X] Routine (7 working days)	[ ] Results Only [X] Level II
City, State, Zip ALBUQUERQUE, NM 87110	**PO #**	[ ] RUSH* (notify lab)	[ ] Level III [ ] Level III CLP-like
Contact VERNON GILES	Compliance Monitoring? [ ] Yes(1) [X] No	_____ (needed by)	[ ] Level IV [ ] Level IV CLP-like
Telephone # 404-353-0337	(1)Agency/Program		[ ] EDD

Sampled by (PRINT) JEFF BRYNIARSKI **Sampler Signature** [signature] **Sampler Phone #** 708-284-2490

Send Report via [ ] Mail [ ] Telephone [ ] Fax (fax #) [X] e-mail (address) JEFF.BRYNIARSKI@WESTONSOLUTIONS.COM

* **Matrix Types:** Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** **Preservative Types:** (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types **		LEAD	ARSENIC						For Lab Use Only
BG-746-102810	DW	X			10/28/10	10:00	1	HNO_3		X	X						10J0989 01
BG-842-102810	↓	↓			↓	10:50	↓	↓		X	X						02
BG-842-102810D						10:50				X	X						03
BG-861-102810	↓	↓			↓	16:25	↓	↓		X	X						04

Possible Hazard Identification [ ] Hazardous [X] Non-Hazardous [ ] Radioactive **Sample Disposition** [ ] Dispose as appropriate [ ] Return [X] Archive

Comments

Page 10 of 10

Sample temperature upon receipt in degrees C = 5.5°C of

Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
[signature]	10/28/10 1745		
Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
Relinquished By (signature)	Date/Time	Received for Lab By (signature) [signature]	Date/Time 10/29/10 1000

rev. 11/04/04

Page ____ of ____

BAUTSCH GRAY MINE SITE
GALENA, ILLINOIS
DATA VALIDATION REPORT

Date: August 25, 2011
Laboratory: STAT Analysis Corporation (STAT), Chicago, Illinois
Laboratory Project #: 11070581
Data Validation Performed By: Lisa Graczyk, Weston Solutions, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START)
Weston Work Order #/TDD #: 20405.012.001.0874.00/S05-0001-0911-035

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for one water sample collected for the Bautsch Gray Mine Site that were analyzed for the following parameters and methods:

- Copper by United States Environmental Protection Agency (U.S. EPA) SW-846 Method 6020
- pH by U.S. EPA Method 150.1

A level II data package was requested from STAT. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" dated January 2010. The Attachment contains the results summary sheets.

TOTAL METALS (ARSENIC AND LEAD) BY SW-846 METHOD 6020

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
BG-746-071611	11070581-001A	Water	7/16/2011	7/25/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 180 days from sample collection to analysis.

3. Blank Results

A method blank was analyzed with the samples and was free of target analytes above the reporting limit.

4. Laboratory Control Sample (LCS) Results

The LCS recoveries were within the laboratory-established quality control (QC) limits for target analytes.

5. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

The laboratory analyzed an MS and MSD using sample BG-746-071611 as the spiked sample. The percent recoveries and relative percent difference (RPD) were within QC limits indicating good laboratory precision and accuracy.

6. Overall Assessment

The metals data are acceptable for use based on the information received.

pH BY U.S. EPA METHOD 150.1

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
BG-746-071611	11070581-001B	Water	7/16/2011	7/19/2011

2. Holding Times

There is no specific holding time limit for pH. The method states that samples are to be analyzed for pH as soon as possible. The sample was analyzed within three days of sample collection; no qualifications were applied. Note that the laboratory flagged the pH result with an "HT" to indicate that the sample was analyzed past its holding time limit.

3. Laboratory Duplicate Results

The laboratory duplicate has a RPD of 0.4 percent which is within QC limits.

4. Overall Assessment

The pH data are acceptable for use based on the information received.

Data Validation Report
Bautsch Gray Mine Site
STAT Analysis Corporation.
Laboratory Project #: 11070581

ATTACHMENT

STAT ANALYSIS CORPORATION
RESULTS SUMMARY WITH QUALIFERS

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: July 26, 2011
Date Printed: July 26, 2011

Client: Weston Solutions
Lab Order: 11070581
Project: Bautsch Gray Mine RV, Galena, IL
Lab ID: 11070581-001

Client Sample ID: BG-746-071611
Collection Date: 7/16/2011 11:45:00 AM
Matrix: Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3005A)**			Prep Date: **7/25/2011**		Analyst: **JG**
Copper	0.065	0.01		mg/L	2	7/25/2011
pH	**E150.1**			Prep Date: **7/19/2011**		Analyst: **MNG**
pH	5.2		HT*	pH units	1	7/19/2011

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

BAUTSCH GRAY MINE SITE
GALENA, ILLINOIS
DATA VALIDATION REPORT

Date: July 20, 2011
Laboratory: STAT Analysis Corporation (STAT), Chicago, Illinois
Laboratory Project #: 11070331
Data Validation Performed By: Lisa Graczyk, Weston Solutions, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START)
Weston Work Order #/TDD #: 20405.012.001.0874.00/S05-0001-0911-035

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for one water sample collected for the Bautsch Gray Mine Site that were analyzed for the following parameters and methods:

- Lead and Arsenic by United States Environmental Protection Agency (U.S. EPA) SW-846 Method 6020

A level II data package was requested from STAT. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" dated January 2010. The Attachment contains the results summary sheets.

TOTAL METALS (ARSENIC AND LEAD) BY SW-846 METHOD 6020

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
BG-746-071111	11070331-001A	Water	7/11/2011	7/13/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 180 days from sample collection to analysis.

3. Blank Results

A method blank was analyzed with the samples and was free of target analytes above the reporting limit. Lead was detected below the reporting limit in the method blank at 0.00377 milligram per liter (mg/L). The sample result was detected above the reporting limit at 0.0052 mg/L. This is close to the method blank result and was flagged "U" as not detected.

4. Laboratory Control Sample (LCS) Results

The LCS recoveries were within the laboratory-established quality control (QC) limits for target analytes.

5. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

The laboratory analyzed an MS and MSD using a sample from another site so matrix interferences could not be evaluated. However, the percent recoveries and relative percent differences were within QC limits indicating good laboratory precision and accuracy.

6. Overall Assessment

The metals data are acceptable for use based on the information received.

Data Validation Report
Bautsch Gray Mine Site
STAT Analysis Corporation.
Laboratory Project #: 11070331

ATTACHMENT

STAT ANALYSIS CORPORATION
RESULTS SUMMARY WITH QUALIFERS

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: July 13, 2011
Print Date: July 13, 2011

Client:	Weston Solutions	**Client Sample ID:**	BG-746-071111
Lab Order:	11070331	**Tag Number:**	
Project:	Bautsch Water Sample	**Collection Date:**	7/11/2011 4:30:00 PM
Lab ID:	11070331-001A	**Matrix:**	Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3005A)**			Prep Date: **7/13/2011**		Analyst: **JG**
Arsenic	ND	0.004		mg/L	2	7/13/2011
Lead	0.0052 U	0.004		mg/L	2	7/13/2011

LL
7/20/11

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- * - Non-accredited parameter
- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded

BAUTSCH GRAY MINE SITE
GALENA, ILLINOIS
DATA VALIDATION REPORT

Date: August 23, 2011
Laboratory: STAT Analysis Corporation (STAT), Chicago, Illinois
Laboratory Project #: 11080481
Data Validation Performed By: Lisa Graczyk, Weston Solutions, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START)
Weston Work Order #/TDD #: 20405.012.001.0874.00/S05-0001-0911-035

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for five water samples collected for the Bautsch Gray Mine Site that were analyzed for the following parameters and methods:

- pH by United States Environmental Protection Agency (U.S. EPA) Method 150.1

A level II data package was requested from STAT. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" dated January 2010. The Attachment contains the results summary sheets.

pH BY U.S. EPA METHOD 150.1

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
BG-SW04-081111	11080481-001A	Water	8/11/2011	8/12/2011
BG-746-TAP03-081111	11080481-002A	Water	8/11/2011	8/12/2011
BG-746-TAP02-081111	11080481-003A	Water	8/11/2011	8/12/2011
BG-746-TAP01-081111	11080481-004A	Water	8/11/2011	8/12/2011
BG-746-TAP01-081111D	11080481-005A	Water	8/11/2011	8/12/2011

2. Holding Times

There is no specific holding time limit for pH. The method states that samples are to be analyze for pH as soon as possible. The samples were analyzed within one day of sample collection which is acceptable.

3. Laboratory Duplicate Results

The laboratory duplicate has a relative percent difference (RPD) of 0.5 percent which is within quality control (QC) limits.

4. Field Duplicate Results

Sample BG-746-TAP01-081111D is a field duplicate of sample BG-746-TAP01-081111. The RPD between the field duplicate and parent sample is 10 percent which is acceptable.

5. Overall Assessment

The pH data are acceptable for use based on the information received.

Data Validation Report
Bautsch Gray Mine Site
STAT Analysis Corporation.
Laboratory Project #: 11080481

ATTACHMENT

STAT ANALYSIS CORPORATION
RESULTS SUMMARY WITH QUALIFERS

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: August 15, 2011
Date Printed: August 15, 2011

Client: Weston Solutions
Project: Bautsch-Gray Mine RV, Galena, IL **Lab Order:** 11080481

Lab ID: 11080481-001 **Collection Date:** 8/11/2011 4:55:00 PM
Client Sample ID BG-SW04-081111 **Matrix:** Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH	**E150.1**			Prep Date: **8/12/2011**		Analyst: **RW**
pH	7.3		*	pH units	1	8/12/2011

Lab ID: 11080481-002 **Collection Date:** 8/11/2011 4:50:00 PM
Client Sample ID BG-746-TAP03-081111 **Matrix:** Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH	**E150.1**			Prep Date: **8/12/2011**		Analyst: **RW**
pH	6.7		*	pH units	1	8/12/2011

Lab ID: 11080481-003 **Collection Date:** 8/11/2011 4:46:00 PM
Client Sample ID BG-746-TAP02-081111 **Matrix:** Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH	**E150.1**			Prep Date: **8/12/2011**		Analyst: **RW**
pH	6.8		*	pH units	1	8/12/2011

Lab ID: 11080481-004 **Collection Date:** 8/11/2011 4:40:00 PM
Client Sample ID BG-746-TAP01-081111 **Matrix:** Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH	**E150.1**			Prep Date: **8/12/2011**		Analyst: **RW**
pH	6.2		*	pH units	1	8/12/2011

Lab ID: 11080481-005 **Collection Date:** 8/11/2011 4:40:00 PM
Client Sample ID BG-746-TAP01-081111D **Matrix:** Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH	**E150.1**			Prep Date: **8/12/2011**		Analyst: **RW**
pH	5.6		*	pH units	1	8/12/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

BAUTSCH GRAY MINE SITE
GALENA, ILLINOIS
DATA VALIDATION REPORT

Date: August 13, 2012
Laboratory: STAT Analysis Corporation (STAT), Chicago, Illinois
Laboratory Project #: 12070514
Data Validation Performed By: Lisa Graczyk, Weston Solutions, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START)
Weston Work Order #/TDD #: 20405.012.001.0874.00/S05-0001-0911-035

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for four water sample collected for the Bautsch Gray Mine Site that were analyzed for the following parameters and methods:

- Arsenic, Copper, and Lead by United States Environmental Protection Agency (U.S. EPA) SW-846 Method 6020
- pH by U.S. EPA Method 150.1

A level II data package was requested from STAT. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" dated January 2010. The Attachment contains the results summary sheets.

TOTAL METALS (ARSENIC, COPPER, AND LEAD) BY SW-846 METHOD 6020

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
BG-RW01-071112	12070514-001	Water	7/11/2012	7/17/2012 – 7/18/2012
BG-RW02-071112	12070514-002	Water	7/11/2012	7/17/2012
BG-RW02D-071112	12070514-003	Water	7/11/2012	7/17/2012
BG-RW03-071212	12070514-004	Water	7/12/2012	7/17/2012 – 7/18/2012

2. Holding Times

The samples were analyzed within the required holding time limit of 180 days from sample collection to analysis.

3. Blank Results

A method blank was analyzed with the samples and was free of target analytes above the reporting limit. Lead was detected below the reporting limit in the method blank at 0.00157 milligram per liter (mg/L). Two of the lead results were less than half this concentration and were flagged "U" as not detected. These lead concentrations are likely due to lead contamination.

4. Laboratory Control Sample (LCS) Results

The LCS recoveries were within the laboratory-established quality control (QC) limits for target analytes.

5. Matrix Spike (MS) Results

The laboratory analyzed an MS using sample BG-RW01-071112 as the spiked sample. The percent recoveries and relative percent differences (RPD) were within QC limits indicating good laboratory precision and accuracy.

6. Overall Assessment

The metals data are acceptable for use as qualified based on the information received.

Data Validation Report
Bautsch Gray Mine Site
STAT Analysis Corporation.
Laboratory Project #: 12070514

pH BY U.S. EPA METHOD 150.1

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
BG-RW01-071112	12070514-001	Water	7/11/2012	7/12/2012
BG-RW02-071112	12070514-002	Water	7/11/2012	7/12/2012
BG-RW02D-071112	12070514-003	Water	7/11/2012	7/12/2012
BG-RW03-071212	12070514-004	Water	7/12/2012	7/12/2012

2. Holding Times

There is no specific holding time limit for pH. The method states that samples are to be analyzed for pH as soon as possible. The samples were analyzed within 24 hours of sample collection; no qualifications were applied.

3. Overall Assessment

The pH data are acceptable for use based on the information received.

Data Validation Report
Bautsch Gray Mine Site
STAT Analysis Corporation.
Laboratory Project #: 12070514

ATTACHMENT

STAT ANALYSIS CORPORATION
RESULTS SUMMARY WITH QUALIFERS

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: July 19, 2012
Date Printed: July 19, 2012

Client: Weston Solutions
Lab Order: 12070514
Project: Bautsch-Gray Mine RV, Galea, IL
Lab ID: 12070514-001

Client Sample ID: BG-RW01-071112
Collection Date: 7/11/2012 2:50:00 PM
Matrix: Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3005A)**			Prep Date: **7/17/2012**		Analyst: **JG**
Arsenic	ND	0.004		mg/L	2	7/17/2012
Copper	0.2	0.01		mg/L	2	7/18/2012
Lead	0.0029 U	0.002		mg/L	2	7/17/2012
pH	**E150.1**			Prep Date: **7/12/2012**		Analyst: **MNG**
pH	5.4		HT	pH units	1	7/12/2012

JD
8/13/12

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: July 19, 2012
Date Printed: July 19, 2012

Client: Weston Solutions
Lab Order: 12070514
Project: Bautsch-Gray Mine RV, Galea, IL
Lab ID: 12070514-002

Client Sample ID: BG-RW02-071112
Collection Date: 7/11/2012 3:15:00 PM
Matrix: Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3005A)**			Prep Date: **7/17/2012**		Analyst: **JG**
Arsenic	ND	0.004		mg/L	2	7/17/2012
Lead	0.002 U	0.002		mg/L	2	7/17/2012
pH	**E150.1**			Prep Date: **7/12/2012**		Analyst: **MNG**
pH	7.1		HT	pH units	1	7/12/2012

JG 8/13/12

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: July 19, 2012
Date Printed: July 19, 2012

Client: Weston Solutions
Lab Order: 12070514
Project: Bautsch-Gray Mine RV, Galea, IL
Lab ID: 12070514-003

Client Sample ID: BG-RW02D-071112
Collection Date: 7/11/2012 3:15:00 PM
Matrix: Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3005A)**			Prep Date: **7/17/2012**		Analyst: **JG**
Arsenic	ND	0.004		mg/L	2	7/17/2012
Lead	ND	0.002		mg/L	2	7/17/2012
pH	**E150.1**			Prep Date: **7/12/2012**		Analyst: **MNG**
pH	7.1		HT	pH units	1	7/12/2012

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: July 19, 2012
Date Printed: July 19, 2012

Client: Weston Solutions
Lab Order: 12070514
Project: Bautsch-Gray Mine RV, Galea, IL
Lab ID: 12070514-004

Client Sample ID: BG-RW03-071112
Collection Date: 7/12/2012 9:35:00 AM
Matrix: Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3005A)**			Prep Date: **7/17/2012**		Analyst: **JG**
Arsenic	ND	0.004		mg/L	2	7/17/2012
Copper	0.011	0.01		mg/L	2	7/18/2012
Lead	0.03	0.002		mg/L	2	7/17/2012
pH	**E150.1**			Prep Date: **7/12/2012**		Analyst: **MNG**
pH	6.9			pH units	1	7/12/2012

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

BAUTSCH GRAY MINE SITE
GALENA, ILLINOIS
DATA VALIDATION REPORT

Date: March 14, 2013
Laboratory: STAT Analysis Corporation (STAT), Chicago, Illinois
Laboratory Project #: 13020252
Data Validation Performed By: Lisa Graczyk, Weston Solutions, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START)
Weston Work Order #/TDD #: 20405.012.001.0874.00/S05-0001-0911-035

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for two water samples collected for the Bautsch Gray Mine Site that were analyzed for the following parameters and methods:

- Arsenic and Lead (total and dissolved) by United States Environmental Protection Agency (U.S. EPA) SW-846 Method 6020
- pH by U.S. EPA Method 150.1

A level II data package was requested from STAT. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" dated January 2010. The Attachment contains the results summary sheets.

TOTAL METALS (ARSENIC AND LEAD) BY SW-846 METHOD 6020

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
BG-HP-TW-021213	13020252-001	Water	2/12/2013	2/18/2013
BG-HP-RW-021213	13020252-002	Water	2/12/2013	2/18/2013
BG-HP-RW-021213-05	13020252-003	Water	2/12/2013	2/20/2013
BG-HP-RW-021213-045	13020252-004	Water	2/12/2013	2/20/2013

2. Holding Times

The samples were analyzed within the required holding time limit of 180 days from sample collection to analysis.

3. Blank Results

Method blanks were analyzed with the samples and were free of target analytes above the reporting limit. Lead was detected below the reporting limit in the method blank; however, the sample concentration was much greater and no qualification was required.

4. Laboratory Control Sample (LCS) Results

The LCS recoveries were within the laboratory-established quality control (QC) limits for target analytes.

5. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

The laboratory analyzed an MS and MSD using sample BG-HP-RW-021213-05 as the spiked sample. The percent recoveries and relative percent differences (RPD) were within QC limits indicating good laboratory precision and accuracy.

6. Overall Assessment

The metals data are acceptable for use based on the information received.

Data Validation Report
Bautsch Gray Mine Site
STAT Analysis Corporation.
Laboratory Project #: 13020252

pH BY U.S. EPA METHOD 150.1

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
BG-HP-TW-021213	13020252-001	Water	2/12/2013	2/13/2013
BG-HP-RW-021213	13020252-002	Water	2/12/2013	2/13/2013

2. Holding Times

There is no specific holding time limit for pH. The method states that samples are to be analyzed for pH as soon as possible. The sample was analyzed within one day of sample collection.

3. Overall Assessment

The pH data are acceptable for use based on the information received.

Data Validation Report
Bautsch Gray Mine Site
STAT Analysis Corporation.
Laboratory Project #: 13020252

ATTACHMENT

STAT ANALYSIS CORPORATION
RESULTS SUMMARY WITH QUALIFERS

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: February 22, 2013
Date Printed: February 22, 2013

Client: Weston Solutions
Project: Bautsch Gray Mine Site, Galena, IL **Lab Order:** 13020252

Lab ID: 13020252-001 **Collection Date:** 2/12/2013 2:20:00 PM
Client Sample ID BG-HP-TW-021213 **Matrix:** Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3005A)**			Prep Date: **2/18/2013**		Analyst: **JG**
Arsenic	ND	0.004		mg/L	2	2/18/2013
Lead	ND	0.004		mg/L	2	2/18/2013
pH	**E150.1**			Prep Date: **2/13/2013**		Analyst: **PBG**
pH	5.5			pH units	1	2/13/2013

Lab ID: 13020252-002 **Collection Date:** 2/12/2013 2:05:00 PM
Client Sample ID BG-HP-RW-021213 **Matrix:** Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3005A)**			Prep Date: **2/18/2013**		Analyst: **JG**
Arsenic	ND	0.004		mg/L	2	2/18/2013
Lead	ND	0.004		mg/L	2	2/18/2013
pH	**E150.1**			Prep Date: **2/13/2013**		Analyst: **PBG**
pH	5.4			pH units	1	2/13/2013

Lab ID: 13020252-003 **Collection Date:** 2/12/2013 2:05:00 PM
Client Sample ID BG-HP-RW-021213-05 **Matrix:** Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Metals by ICP/MS	**SW6020 (SW3005A)**			Prep Date: **2/20/2013**		Analyst: **JG**
Arsenic	ND	0.004		mg/L	2	2/20/2013
Lead	ND	0.004		mg/L	2	2/20/2013

Lab ID: 13020252-004 **Collection Date:** 2/12/2013 2:05:00 PM
Client Sample ID BG-HP-RW-021213-045 **Matrix:** Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Metals by ICP/MS	**SW6020 (SW3005A)**			Prep Date: **2/20/2013**		Analyst: **JG**
Arsenic	ND	0.004		mg/L	2	2/20/2013
Lead	ND	0.004		mg/L	2	2/20/2013

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

BAUTSCH GRAY MINE SITE
GALENA, ILLINOIS
DATA VALIDATION REPORT

Date: August 26, 2013
Laboratory: STAT Analysis Corporation (STAT), Chicago, Illinois
Laboratory Project #: 13071301
Data Validation Performed By: Lisa Graczyk, Weston Solutions, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START)
Weston Work Order #/TDD #: 20405.012.001.0874.00/S05-0001-0911-035

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for three water sample collected for the Bautsch Gray Mine Site that were analyzed for the following parameters and methods:

- Arsenic, Copper, and Lead by United States Environmental Protection Agency (U.S. EPA) SW-846 Method 6020
- pH by U.S. EPA Method 150.1

A level II data package was requested from STAT. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" dated January 2010. The Attachment contains the results summary sheets.

TOTAL METALS (ARSENIC, COPPER, AND LEAD) BY SW-846 METHOD 6020

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
BG-RW01-072513	13071301-001	Water	7/25/2013	8/2/2013
BG-RW01-072513D	13071301-002	Water	7/25/2013	8/2/2013
BG-RW02-072513	13071301-003	Water	7/25/2013	8/2/2013

2. Holding Times

The samples were analyzed within the required holding time limit of 180 days from sample collection to analysis.

3. Blank Results

A method blank was analyzed with the samples and was free of target analytes above the reporting limit. Lead was detected below the reporting limit in the method blank at 0.00369 milligram per liter (mg/L). Two of the lead results were less than twice this concentration and were flagged "U" as not detected. These lead concentrations are likely due to lead contamination. Note that copper was also detected below the reporting limit; however, the sample concentrations were much greater than the blank concentration and no qualification was required.

4. Laboratory Control Sample (LCS) Results

The LCS recoveries were within the laboratory-established quality control (QC) limits for target analytes.

5. Matrix Spike (MS) Results

The laboratory analyzed an MS using a sample from another site. For the MS/MSD analyzed, the percent recoveries and relative percent differences (RPD) were acceptable.

6. Field Duplicate Results

Sample BG-RW01-072513D is a field duplicate of sample BG-RW01-072513. There was excellent correlation between the field duplicate and corresponding investigative sample.

7. Overall Assessment

The metals data are acceptable for use as qualified based on the information received.

Data Validation Report
Bautsch Gray Mine Site
STAT Analysis Corporation.
Laboratory Project #: 13071301

pH BY U.S. EPA METHOD 150.1

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
BG-RW01-072513	13071301-001	Water	7/25/2013	7/26/2013
BG-RW01-072513D	13071301-002	Water	7/25/2013	7/26/2013
BG-RW02-072513	13071301-003	Water	7/25/2013	7/26/2013

2. Holding Times

There is no specific holding time limit for pH. The method states that samples are to be analyzed for pH as soon as possible. The samples were analyzed within 24 hours of sample collection; no qualifications were applied.

3. Laboratory Duplicate Results

The RPD for the laboratory duplicate was within QC limits.

4. Field Duplicate Results

Sample BG-RW01-072513D is a field duplicate of sample BG-RW01-072513. There was excellent correlation between the field duplicate and corresponding investigative sample.

5. Overall Assessment

The pH data are acceptable for use based on the information received.

Data Validation Report
Bautsch Gray Mine Site
STAT Analysis Corporation.
Laboratory Project #: 13071301

ATTACHMENT

STAT ANALYSIS CORPORATION
RESULTS SUMMARY WITH QUALIFERS

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: August 07, 2013
Date Printed: August 07, 2013

Client: Weston Solutions
Project: Bautsch Mine RV, Galena, IL **Lab Order:** 13071301

Lab ID: 13071301-001 **Collection Date:** 7/25/2013 10:15:00 AM
Client Sample ID BG-RW01-072513 **Matrix:** Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3005A)**			Prep Date: **8/2/2013**		Analyst: **JG**
Arsenic	ND	0.004		mg/L	2	8/2/2013
Copper	0.028	0.01		mg/L	2	8/2/2013
Lead	0.005 U	0.004		mg/L	2	8/2/2013
pH	**E150.1**			Prep Date: **7/26/2013**		Analyst: **RW**
pH	5.1			pH units	1	7/26/2013

Lab ID: 13071301-002 **Collection Date:** 7/25/2013 10:15:00 AM
Client Sample ID BG-RW01-072513D **Matrix:** Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3005A)**			Prep Date: **8/2/2013**		Analyst: **JG**
Arsenic	ND	0.004		mg/L	2	8/2/2013
Copper	0.028	0.01		mg/L	2	8/2/2013
Lead	0.0045 U	0.004		mg/L	2	8/2/2013
pH	**E150.1**			Prep Date: **7/26/2013**		Analyst: **RW**
pH	5.2			pH units	1	7/26/2013

Lab ID: 13071301-003 **Collection Date:** 7/25/2013 10:30:00 AM
Client Sample ID BG-RW02-072513 **Matrix:** Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3005A)**			Prep Date: **8/2/2013**		Analyst: **JG**
Arsenic	ND	0.004		mg/L	2	8/2/2013
Copper	0.014	0.01		mg/L	2	8/2/2013
Lead	0.028	0.004		mg/L	2	8/2/2013
pH	**E150.1**			Prep Date: **7/26/2013**		Analyst: **RW**
pH	6.9			pH units	1	7/26/2013

LD
8/26/13

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded